## SEQUENCE LISTING

- <110> Rosen et al.
- <120> 125 Human Secreted Proteins
- <130> PZ020P2C1
- <150> US 09/974,879
- <151> 2001-10-12
- <150> US 60/239,893
- <151> 2000-10-13
- <150> US 09/818,683
- <151> 2001-03-28
- <150> US 09/305,736
- <151> 1999-05-05
- <150> PCT/US98/23435
- <151> 1998-11-04
- <150> US 60/064,911
- <151> 1997-11-07
- <150> US 60/064,912
- <151> 1997-11-07
- <150> US 60/064,983
- <151> 1997-11-07
- <150> US 60/064,900
- <151> 1997-11-07
- <150> US 60/064,988
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- <150> US 60/064,985
- <151> 1997-11-07
- <150> US 60/066,094
- <151> 1997-11-17
- <150> US 60/066,100
- <151> 1997-11-17
- <150> US 60/066,089
- <151> 1997-11-17
- <150> US 60/066,095

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2040

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Glu Asp Lys Trp Cys Pro Gln Asn Thr Gln Tyr Cys Leu Thr Val His 65 70 75 80

His Phe Thr Ser His Gly Arg Ser Thr Ser Ile Thr Lys Lys Cys Ala 85 90 95

Ser Arg Ser Glu Cys His Phe Val Gly Cys His His Ser Arg Asp Ser 100 105 110

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<210> 140 <211> 334 <212> PRT <213> Homo sapiens

<400> 140

Met Phe Gln Cys Gly Leu Leu Gln Gln Leu Cys Thr Ile Leu Met Ala 1 5 10 15

Thr Gly Val Pro Ala Asp Ile Leu Thr Glu Thr Ile Asn Thr Val Ser 20 25 30

Glu Val Ile Arg Gly Cys Gln Val Asn Gln Asp Tyr Phe Ala Ser Val 35 40 45

Asn Ala Pro Ser Asn Pro Pro Arg Pro Ala Ile Val Val Leu Leu Met 50 55 60

Ser Met Val Asn Glu Arg Gln Pro Phe Val Leu Arg Cys Ala Val Leu 65 70 75 80

Tyr Cys Phe Gln Cys Phe Leu Tyr Lys Asn Gln Lys Gly Gln Gly Glu 85 90 95

Ile Val Ser Thr Leu Leu Pro Ser Thr Ile Asp Ala Thr Gly Asn Ser 100 105 110

Val Ser Ala Gly Gln Leu Leu Cys Gly Gly Leu Phe Ser Thr Asp Ser 115 120 125

Leu Ser Asn Trp Cys Ala Ala Val Ala Leu Ala His Ala Leu Gln Glu 130 135 140

Asn Ala Thr Gln Lys Glu Gln Leu Leu Arg Val Gln Leu Ala Thr Ser 145 150 155 160

Ile Gly Asn Pro Pro Val Ser Leu Leu Gln Gln Cys Thr Asn Ile Leu 165 170 175

Ser Gln Gly Ser Lys Ile Gln Thr Arg Val Gly Leu Leu Met Leu Leu 180 185 190

Cys Thr Trp Leu Ser Asn Cys Pro Ile Ala Val Thr His Phe Leu His 195 200 205

Asn Ser Ala Asn Val Pro Phe Leu Thr Gly Gln Ile Ala Glu Asn Leu 210 215 220

Gly Glu Glu Glu Gln Leu Val Gln Gly Leu Cys Ala Leu Leu Gly 225 230 235 240

Ile Ser Ile Tyr Phe Asn Asp Asn Ser Leu Glu Ser Tyr Met Lys Glu 245 250 255

Lys Leu Lys Gln Leu Ile Glu Lys Arg Ile Gly Lys Glu Asn Phe Ile 260 265 270

Glu Lys Leu Gly Phe Ile Ser Lys His Glu Leu Tyr Ser Arg Ala Ser 275 280 285

Gln Lys Pro Gln Pro Asn Phe Pro Ser Pro Glu Tyr Met Ile Phe Asp 290 295 300 His Glu Phe Thr Lys Leu Val Lys Glu Leu Glu Gly Val Ile Thr Lys 305 310 315 320

Ala Ile Tyr Lys Ser Ser Glu Glu Asp Lys Lys Lys Lys 325 330

<210> 141

<211> 42

<212> PRT

<213> Homo sapiens

<400> 141

Met Thr Val Ala Ser Ile Arg His Ile Leu Val Glu Ile Trp Leu Pro 1 5 10 15

Ile Ala Leu Ala Met Gly Thr Arg Gly Leu Thr Gln Ile Val Ala Val 20 25 30

Ile Gln Ser Arg Ser Gln Trp Ala Leu Ser 35 40

<210> 142

<211> 86

<212> PRT

<213> Homo sapiens

<400> 142

Met Leu Phe Ile Phe Leu Leu Leu Ile Leu Ser Ile Thr Ala Ser Tyr 1 5 10 15

Ser Leu Thr Cys Ile Leu Ser Gly Ala Gly Glu Pro Ser Ser Val Ser 20 25 30

Ala Ser Val Val Ser Gly Pro Gly Phe Cys Leu Ala Ala Leu Leu Leu 35 40 45

Met Arg Thr Gly Gly Phe Ala Ala Thr Leu Leu Pro Val Ala Pro Thr 50 55 60

Glu Arg Phe Phe Ser Cys Cys Thr Val Leu Ser Ala Gln Arg Asn Val 65 . 70 75 80

Ser Arg Thr Arg Ser Pro

<210> 143

<211> 121

<212> PRT

<213> Homo sapiens

<400> 143

Met Leu Ser Thr Arg Trp Met Gly Leu His Leu Val Gln Ile Leu Trp

1 5 10 15

Arg Cys Trp Thr Ser Ser Ala Thr Ile Thr Ser Arg Lys Leu Ser Thr 20 25 30

- Ala Leu Arg Ser Pro Val Leu Ser Gly Thr Gln Thr Ser Arg Ser Ser 35 40 45
- Gly Asp Ser Gly Trp Ser Met Lys Thr Ser Val Lys Ala Thr Pro His
  50 60
- Gln Met Ser Leu Arg Ser Gly Lys Glu Thr Pro Ser Ala Asp Ile Pro 65 70 75 80
- Arg Ile His His Gln Leu Val Arg Leu Arg His Gln Ala His Gly Gly
  85 90 95
- Trp Ser Pro His Gly Val Pro Glu Gln Gly Thr Met Pro Leu Val Leu
  100 105 110
- Pro Pro Val Ser Cys Asp Ile Gln Pro 115 120
- <210> 144
- <211> 275
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> misc\_feature
- <222> (131)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 144
- Met Ala Asn Thr Gly Val Phe Gly Phe Ser Phe Leu Leu Thr Val 1 5 10 15
- Ala Leu Leu Ala Ser Tyr Ser Val His Leu Leu Leu Ser Met Cys Ile 20 25 30
- Gln Thr Ala Val Thr Ser Tyr Glu Asp Leu Gly Leu Phe Ala Phe Gly 35 40 45
- Leu Pro Gly Lys Leu Val Val Ala Gly Thr Ile Ile Ile Gln Asn Ile 50 55 60
- Gly Ala Met Ser Ser Tyr Leu Leu Ile Ile Lys Thr Glu Leu Pro Ala 65 70 75 80
- Ala Ile Ala Glu Phe Leu Thr Gly Asp Tyr Ser Arg Tyr Trp Tyr Leu  $85 \hspace{1cm} 90 \hspace{1cm} 95$
- Asp Gly Gln Thr Leu Leu Ile Ile Cys Val Gly Ile Val Phe Pro 100 105 110
- Leu Ala Leu Leu Pro Lys Ile Gly Phe Leu Gly Tyr Thr Ser Ser Leu 115 120 125
- Ser Phe Xaa Phe Met Met Phe Phe Ala Leu Val Val Ile Ile Lys Lys 130 135 140
- Trp Ser Ile Pro Cys Pro Leu Thr Leu Asn Tyr Val Glu Lys Gly Phe 145 150 155 160

- Gln Ile Ser Asn Val Thr Asp Asp Cys Lys Pro Lys Leu Phe His Phe 165 170 175
- Ser Lys Glu Ser Ala Tyr Ala Leu Pro Thr Met Ala Phe Ser Phe Leu 180 185 190
- Cys His Thr Ser Ile Leu Pro Ile Tyr Cys Glu Leu Gln Ser Pro Ser 195 200 205
- Lys Lys Arg Met Gln Asn Val Thr Asn Thr Ala Ile Ala Leu Ser Phe 210 220
- Leu Ile Tyr Phe Ile Ser Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Gly 225 230 235 240
- Ser His Ser Val Ala Gln Val Gly Val Gln Trp Cys Asp Leu Ser Ser 245 250 255
- Leu Gln Pro Leu Pro Pro Gly Leu Lys Gln Ser Ser His Leu Ser Leu 260 265 270

Gln Ser Ser 275

- <210> 145
- <211> 194
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> misc\_feature
- <222> (138)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 145
- Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly
  1 5 10 15
- Gly Leu Ala Gln Ser Asp Thr Ser Pro Asp Thr Glu Glu Ser Tyr Ser 20 25 30
- Asp Trp Gly Leu Arg His Leu Arg Gly Ser Phe Glu Ser Val Asn Ser 35 40 45
- Tyr Phe Asp Ser Phe Leu Glu Leu Leu Gly Gly Lys Asn Gly Val Cys 50 55 60
- Gln Tyr Arg Cys Arg Tyr Gly Lys Ala Pro Met Pro Arg Pro Gly Tyr 65 70 75 80
- Lys Pro Gln Glu Pro Asn Gly Cys Gly Ser Tyr Phe Leu Gly Leu Lys 85 90 95
- Val Pro Glu Ser Met Asp Leu Gly Ile Pro Ala Met Thr Lys Cys Cys
  100 105 110
- Asn Gln Leu Asp Val Cys Tyr Asp Thr Cys Gly Ala Asn Lys Tyr Arg 115 120 125

Cys Asp Ala Lys Phe Arg Trp Cys Leu Xaa Ser Ile Cys Ser Asp Leu 130 135 140

Lys Arg Ser Leu Gly Phe Val Ser Lys Val Glu Ala Cys Asp Ser Leu 145 150 155 160

Val Asp Thr Val Phe Asn Thr Val Trp Thr Leu Gly Cys Arg Pro Phe 165 170 175

Met Asn Ser Gln Arg Ala Ala Cys Ile Cys Ala Glu Glu Glu Lys Glu 180 185 190

Glu Leu

<210> 146

<211> 121

<212> PRT

<213> Homo sapiens

<400> 146

Met Leu Arg Gly Thr Met Thr Ala Trp Arg Gly Met Arg Pro Glu Val 1 5 10 15

Thr Leu Ala Cys Leu Leu Leu Ala Thr Ala Gly Cys Phe Ala Asp Leu 20 25 30

Asn Glu Val Pro Gln Val Thr Val Gln Pro Ala Ser Thr Val Gln Lys 35 40 45

Pro Gly Gly Thr Val Ile Leu Gly Cys Val Val Glu Pro Pro Arg Met 50 55 60

Asn Val Thr Trp Arg Leu Asn Gly Lys Glu Leu Asn Gly Ser Asp Asp 65 70 75 80

Ala Leu Gly Val Leu Ile Thr His Gly Thr Leu Val Ile Thr Ala Leu 85 90 95

Asn Asn His Thr Val Gly Arg Tyr Gln Cys Val Ala Arg Met Pro Ala 100 105 110

Gly Ala Val Ala Thr Cys Gln Pro Leu

<210> 147

<211> 266

<212> PRT

<213> Homo sapiens

<400> 147

Met Trp Trp Phe Gln Gln Gly Leu Ser Phe Leu Pro Ser Ala Leu Val 1 5 10 15

Ile Trp Thr Ser Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala Val Thr 20 25 30

Leu His His Ile Asp Pro Ala Leu Pro Tyr Ile Ser Asp Thr Gly Thr 35 40 45

Val Ala Pro Glu Lys Cys Leu Phe Gly Ala Met Leu Asn Ile Ala Ala 50 55 60

Val Leu Cys Ile Ala Thr Ile Tyr Val Arg Tyr Lys Gln Val His Ala 65 70 75 80

Leu Ser Pro Glu Glu Asn Val Ile Ile Lys Leu Asn Lys Ala Gly Leu 85 90 95

Val Leu Gly Ile Leu Ser Cys Leu Gly Leu Ser Ile Val Ala Asn Phe 100 105 110

Gln Lys Thr Thr Leu Phe Ala Ala His Val Ser Gly Ala Val Leu Thr 115 120 125

Phe Gly Met Gly Ser Leu Tyr Met Phe Val Gln Thr Ile Leu Ser Tyr 130 135 140

Gln Met Gln Pro Lys Ile His Gly Lys Gln Val Phe Trp Ile Arg Leu 145 150 155 160

Leu Leu Val Ile Trp Cys Gly Val Ser Ala Leu Ser Met Leu Thr Cys 165 170 175

Ser Ser Val Leu His Ser Gly Asn Phe Gly Thr Asp Leu Glu Gln Lys 180 185 190

Leu His Trp Asn Pro Glu Asp Lys Gly Tyr Val Leu His Met Ile Thr 195 200 205

Thr Ala Ala Glu Trp Ser Met Ser Phe Ser Phe Gly Phe Phe Leu 210 215 220

Thr Tyr Ile Arg Asp Phe Gln Lys Ile Ser Leu Arg Val Glu Ala Asn 225 230 235 240

Leu His Gly Leu Thr Leu Tyr Asp Thr Ala Pro Cys Pro Ile Asn Asn 245 250 255

Glu Arg Thr Arg Leu Leu Ser Arg Asp Ile 260 265

<210> 148

<211> 91

<212> PRT

<213> Homo sapiens

<400> 148

Met Leu Cys His Pro His Val His His Leu Val Cys Leu Leu Ala 1 5 10 15

Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His 20 25 30

Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser

Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile 50 55 60

Arg Leu Pro Val Ala Leu Ser Phe Ser Met Gly Leu Gly Leu Leu Ser 65 70 75 80

Pro Ala Leu Gly Arg Phe Leu Ala Ser Glu Leu 85 90

<210> 149

<211> 108

<212> PRT

<213> Homo sapiens

<400> 149

Met Ala Ile Leu Leu Ala Cys Phe Thr Ala Val Leu Ala Phe Ile Cys

1 10 15

Leu Gln Phe Trp Cys Val Arg Cys His Glu Pro Arg Trp Ser Tyr Arg
20 25 30

Ala Gly His Met Glu Glu Ala Asn Gly Leu Val Arg Trp Pro Glu Glu
35 40 45

Ala Pro Asp Leu Gly Gln Arg Glu Glu Asp Leu Gln Gly Leu Pro Leu 50 55 60

Val Glu Met Pro Arg Lys Asn Ser Arg Asp Gly Ala Glu Leu Asp Pro 65 70 75 80

Glu Ala Asn Gln Asp Ala Pro Asp Ala Gly Ala Leu Gln Arg Gly Gly 85 90 95

Gly Asp Pro Pro Ala Ile Leu Pro His Cys Gly Glu 100 105

<210> 150

<211> 87

<212> PRT

<213> Homo sapiens

<400> 150

Met Leu Leu Arg Val Phe His Phe Phe Leu His Ile Leu His Lys Lys 1 5 10 15

Gln Thr Gly Val Ser Leu Leu Tyr Leu Leu Leu Thr Leu Phe Leu Leu 20 25 30

Gln Gln Val Ile Pro Gln Pro Ser Leu Pro Leu Leu His Leu Val

Ser Phe Gln Ile Cys His Tyr Pro Phe Pro Gln Trp Met Leu Gln Tyr 50 55 60

Arg Gln Ala Lys Met Val Leu Gly Thr Arg Cys Gln Met Ser Leu Met 65 70 75 80

His Phe Gln Asn Ser Gln Asn

<210> 151

<211> 73

<212> PRT

<213> Homo sapiens

<400> 151

Met Ser Arg Val Val Ser Leu Phe Phe Phe Ile Leu Phe Ser Phe Phe 1 5 10 15

Phe Phe Ala Phe Ser Leu Ser Ser Leu Ser Phe Val His Tyr Glu
20 25 30

Lys Leu Val Gln Val Lys Glu Cys Leu Asp Ser Phe Leu Lys Lys Ile 35 40 45

Lys Ile Lys Glu Tyr Lys Thr Arg Gln Cys Tyr His Leu Ile Arg Trp 50 55 60

Glu Asn Asn Gly Ala Lys Leu Gln Ser
65 70

<210> 152

<211> 71

<212> PRT

<213> Homo sapiens

<400> 152

Met Ser Ala Ser Leu Lys Asn His Leu Thr His Cys Phe Leu Leu 1 5 10 15

Leu Leu Lys Glu Leu Val Ser Pro Thr Met Ile Ser Phe Val Pro Thr 20 25 30

Leu Arg His Ser Tyr Arg Phe Phe Asn Leu Phe Ser Cys Asp Ala Glu 35 40 45

Ser Thr Lys Glu Ser Pro Gly Arg Thr Val Gln Phe Ser Lys Thr Pro 50 55 60

Arg Gly Val Thr Met Phe Ile 65 70

<210> 153

<211> 151

<212> PRT

<213> Homo sapiens

<400> 153

Met Lys Tyr Gly Leu Thr Gly Pro Trp Ile Lys Arg Leu Leu Pro Val 1 5 10 15

Ile Phe Leu Val Gln Ala Ser Gly Met Asn Val Tyr Met Ser Arg Ser 20 25 30

Leu Glu Ser Ile Lys Gly Ile Ala Val Met Asp Lys Glu Gly Asn Val
35 40 45

Leu Gly His Ser Arg Ile Ala Gly Thr Lys Ala Val Arg Glu Thr Leu 50 60

Ala Ser Arg Ile Val Leu Phe Gly Thr Ser Ala Leu Ile Pro Glu Val 65 70 75 80

Phe Thr Tyr Phe Phe Lys Arg Thr Gln Tyr Phe Arg Lys Asn Pro Gly 85 90 95

Ser Leu Trp Ile Leu Lys Leu Ser Cys Thr Val Leu Ala Met Gly Leu 100 105 110

Met Val Pro Phe Ser Phe Ser Ile Phe Pro Gln Ile Gly Gln Ile Gln
115 120 125

Tyr Cys Ser Leu Glu Glu Lys Ile Gln Ser Pro Thr Glu Glu Thr Glu 130 135 140

Ile Phe Tyr His Arg Gly Val 145 150

<210> 154

<211> 60

<212> PRT

<213> Homo sapiens

<400> 154

Met Leu Arg Val Ala Gly Val Leu Gln Phe Leu Pro Leu Ser Tyr Gly
1 5 10 15

Thr Lys Val Ala Ser Leu Trp Asn Thr Tyr Glu Asn Val Val Met Pro

Pro Ser Phe Thr Thr Leu Val Leu Pro Leu Leu Ser His Glu Phe 35 40 45

Tyr Asn Tyr Ser Tyr Pro Phe Ala Cys Asp Gln Lys
50 55 60

<210> 155

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<221> misc_feature
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<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 155

Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu 1 5 10 15

Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu 20 25 30

Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu 35 40 45

Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys 50 55 60

Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu 65 70 75 80

Pro Lys Arg Glu Glu His Val Glu Xaa Pro Xaa Asn Ala Xaa Thr Trp 85 90 95

Xaa Xaa Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr 100 105 110

Phe Ser Ser Gln Val Leu Leu Pro Leu Leu 115 120

<210> 156

<211> 54

<212> PRT

<213> Homo sapiens

<400> 156

Met Ser Pro Cys Ala His Ile Cys Leu Tyr Val Leu Val Phe Leu Cys 1 5 10 15

Asn Val Thr Arg Cys Lys Cys Val Arg Ala Phe Thr Thr Trp Asp Thr 20 25 30

Glu Lys Val Lys Tyr Phe Met Ala His Trp Ser Lys Leu Lys Arg Val 35 40 45

Arg Gly Thr Arg Val Glu 50

<210> 157

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<211> 110
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<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 157

Met Phe Leu Ala Ser Trp Leu Leu Phe Cys Ile Val Ala Pro Lys Asp 1 5 10 15

Asp Ala His Leu Ser Phe Ile Gln Cys Lys Asp Ile Trp Lys Asp Asn 20 25 30

Arg Lys Tyr Ser Cys Phe His Phe Lys Ser Asp Gln Leu Leu Glu Leu 35 40 45

Ala Ser Lys Ala Cys Thr Ser Phe Gln Ala Gln Ser Arg Ser Phe Thr 50 55 60

Ala Gly Ala Val Pro Ser Glu His Pro Glu Leu Pro Cys Gly Ser Gln 65 70 75 80

Gln Leu Cys Cys Gly Cys Thr Ala Arg Leu Gly Gly Xaa Trp Ile Gly 85 90 95

Ala Ser Arg Cys Gly Ser Gly Ser Ala Phe Leu Ala Ser Pro 100 105 110

<210> 158

<211> 47

<212> PRT

<213> Homo sapiens

<400> 158

Met Ser Leu Gln Ala Ile Asp Leu Leu Trp Ser Leu Cys Thr Gln Thr 1 5 10 15

Ser Leu Leu Thr Leu Ile Cys Ile Cys Ser His Ser Gln Ala Leu Ser 20 25 30

Ser Ser Pro Gln Leu His Leu Arg Ser Ser Ser Ile Arg Phe Ser 35 40 45

<210> 159

<211> 81

<212> PRT

<213> Homo sapiens

<400> 159

Met Phe His Phe Gly Leu Trp Asp Leu His Phe Phe Leu Ile Val Met
1 10 15

Ala His Arg Asp Cys Ser Phe Lys Gly Gly Cys Gly Leu Leu Glu 20 25 30

- Arg Phe Gln Cys Pro His Thr Ser Phe Ser Ser Ala Ser Gln Lys Arg 35 40 45
- Leu Ala Asp Gly Met Glu Cys Leu Cys Glu Ile Glu Arg Thr Gln Thr 50 55 60
- Arg Ile Arg Lys Ile Cys Leu Pro Thr Leu His Gly His Leu Leu Ala 65 70 75 80

Val

- <210> 160
- <211> 155
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> misc\_feature
- <222> (108)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> misc\_feature
- <222> (113)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 160
- Met Met Ala Arg Gln Thr Gly Val Phe Tyr Leu Thr Leu Val Leu Ile 1 5 10 15
- Leu Val Thr Ser Gly Leu Phe Phe Ala Phe Asp Cys Pro Tyr Leu Ala 20 25 30
- Val Lys Ile Thr Pro Ala Ile Pro Ala Val Ala Gly Ile Leu Phe Phe 35 40 45
- Phe Val Met Gly Thr Leu Leu Arg Thr Ser Phe Ser Asp Pro Gly Val 50 60
- Leu Pro Arg Ala Thr Pro Asp Glu Ala Ala Asp Leu Glu Arg Gln Ile 65 70 75 80
- Gly Asn Thr Glu Ser Leu Pro Met Ala Ser Gly His Phe Pro Pro Gly 85 90 95
- Pro Ser Tyr Ser Gly Glu Gly Arg Pro Arg Ala Xaa Gln Glu Glu Leu 100 105 110
- Xaa Ala Gly Lys Glu Gly Gly Gln Lys Ser Ala Phe Leu Ser Ser Leu 115 120 125
- Gly Gly Gln Asp Glu Leu Lys Lys Arg Cys Asp Ile Arg Leu Glu Gly 130 135
- Gln Val Ser Trp Arg Gln Asp Cys Arg Pro Thr 145 150 155

- <210> 161
- <211> 294
- <212> PRT
- <213> Homo sapiens
- <400> 161
- Met Arg Leu Asp Lys Pro Ile Gly Thr Trp Leu Leu Tyr Leu Pro Cys 1 5 10 15
- Thr Trp Ser Ile Gly Leu Ala Ala Glu Pro Gly Cys Phe Pro Asp Trp 20 25 30
- Tyr Met Leu Ser Leu Phe Gly Thr Gly Ala Ile Leu Met Arg Gly Ala 35 40 45
- Gly Cys Thr Ile Asn Asp Met Trp Asp Gln Asp Tyr Asp Lys Lys Val 50 60
- Thr Arg Thr Ala Asn Arg Pro Ile Ala Ala Gly Asp Ile Ser Thr Phe 65 70 75 80
- Gln Ser Phe Val Phe Leu Gly Gly Gln Leu Thr Leu Ala Leu Gly Val 85 90 95
- Leu Leu Cys Leu Asn Tyr Tyr Ser Ile Ala Leu Gly Ala Gly Ser Leu 100 105 110
- Leu Leu Val Ile Thr Tyr Pro Leu Met Lys Arg Ile Ser Tyr Trp Pro 115 120 125
- Gln Leu Ala Leu Gly Leu Thr Phe Asn Trp Gly Ala Leu Leu Gly Trp 130 140
- Ser Ala Ile Lys Gly Ser Cys Asp Pro Ser Val Cys Leu Pro Leu Tyr 145 150 155 160
- Phe Ser Gly Val Met Trp Thr Leu Ile Tyr Asp Thr Ile Tyr Ala His 165 170 175
- Gln Asp Lys Arg Asp Asp Val Leu Ile Gly Leu Lys Ser Thr Ala Leu 180 185 190
- Arg Phe Gly Glu Asn Thr Lys Pro Trp Leu Ser Gly Phe Ser Val Ala 195 200 205
- Met Leu Gly Ala Leu Ser Leu Val Gly Val Asn Ser Gly Gln Thr Ala 210 215 220
- Pro Tyr Tyr Ala Ala Leu Gly Ala Val Gly Ala His Leu Thr His Gln 225 230 235 240
- Ile Tyr Thr Leu Asp Ile His Arg Pro Glu Asp Cys Trp Asn Lys Phe 245 250 255
- Ile Ser Asn Arg Thr Leu Gly Leu Ile Val Phe Leu Gly Ile Val Leu 260 265 270
- Gly Asn Leu Trp Lys Glu Lys Lys Thr Asp Lys Thr Lys Lys Gly Ile 275 280 285

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Glu Asn Lys Ile Glu Asn
    290
<210> 162
<211> 59
<212> PRT
<213> Homo sapiens
<400> 162
Met Gly Pro Phe Leu Leu Val Phe Leu Phe Pro Ile Leu Arg Val Cys
Gly Ile Ile Arg Glu Pro Thr Gln Asp Trp Ser Val Leu Leu Glu Arg
Ala Arg Leu Thr Ala Pro Gly Gln Pro Pro Ala Leu Phe Pro Leu Glu
                              40
Ser Gly Pro Met Ala Thr Ala Gln Asn Thr Ser
<210> 163
<211> 121
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (87)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (101)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 163
Met Cys Ser His Ser Thr Leu Ile His Leu Tyr Leu Val Leu Pro Phe
Phe Phe Leu Phe Leu Pro Ser Ser Phe Pro Phe Pro Ser Xaa Ser Xaa
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25

Ser Ser Ile Leu Pro Ser Leu Arg Leu Pro Pro Phe Phe Pro Pro Ser 35 40 45

Leu Phe Leu His Ser Ser Leu Pro Pro Ser Leu Ser His Pro Leu Gly 50 55 60

Leu Ser Ile Thr Ser Ser Arg Gln Ser Phe Leu Asp Tyr His His Leu 65 70 75 80

Cys Thr Lys His Leu Ser Xaa Thr Leu Cys Gly Leu Ile Tyr His Cys
85 90 95

Leu Asn Ile Phe Xaa Thr Arg Ala Val Met Trp His Met Gln Val Ser 100 105 110

Phe Leu Xaa Ile His Trp Leu Leu Pro 115 120

<210> 164

<211> 72

<212> PRT

<213> Homo sapiens

<400> 164

Met Ser Ile Tyr His Val Cys Leu Ile Leu Leu Tyr Ile Thr Ser 1 5 10 15

His Ser His Gln Asn Met Ser Ser Cys Leu Gln Val Pro Leu Ser Leu 20 25 30

Leu Ser Cys Pro Leu Lys Gly Glu His Leu Ser Gln Phe Ala Gly Asp 35 40 45

His Ser Leu Pro Glu Val Arg Asp Arg Asn His His Cys Ile Leu Phe 50 55 60

Lys Glu Ser His Gln Lys Arg Lys 65 70

<210> 165

<211> 122

<212> PRT

<213> Homo sapiens

<400> 165

Met Leu Ala Asn Phe Thr Leu Phe Ile Leu Thr Leu Ile Ser Phe Leu 1 5 10 15

Leu Leu Val Cys Ser Pro Cys Lys His Leu Lys Met Met Gln Leu His 20 25 30

Gly Lys Gly Ser Gln Asp Leu Ser Thr Lys Val His Ile Lys Pro Leu
35 40 45

Gln Thr Val Ile Ser Phe Leu Met Leu Phe Ala Ile Tyr Phe Leu Cys 50 55 60

Ile Ile Thr Ser Thr Trp Asn Pro Arg Thr Gln Gln Ser Asn Leu Val

Phe Leu Leu Tyr Gln Thr Leu Ala Ile Met Tyr Pro Ser Phe His Ser 85 90 95

Phe Ile Leu Ile Met Arg Ser Arg Lys Leu Lys Gln Thr Ser Leu Ser 100 105 110

Val Leu Cys Gln Val Thr Cys Trp Val Lys 115 120

<210> 166

<211> 142

<212> PRT

<213> Homo sapiens

<400> 166

Met Pro Gly Pro Cys Leu Ser Gln Gln His Pro Phe Leu Ser Leu Ser 1 10 15

Leu Phe Pro Phe Cys Leu Trp Ile Cys Leu Ala Arg Val Pro Gly Val 20 25 30

Arg Asn Ile Cys Lys Thr Gln Pro Ala Pro Ser Gln Pro Ser Leu Leu 35 40 45

Gly Leu Gly Leu Ser His Pro Ala Ala Gly Thr Thr Asp Ala Gly Thr 50 60

Gln Ser Leu Pro Arg Ser Gln His Lys Cys Thr Ser Ala Leu Trp Gly
65 70 75 80

Leu Cys Pro Ala Gln Arg Pro Leu Leu Pro Ala His Ile His Ser 85 90 95

Ser Gly His Gly Ala Pro Gln Glu Leu Gln Ser His Leu Ser His Arg 100 105 110

Leu Pro Ala Ser Ala Ser Leu Ser Met Met Ser Pro Phe Ser Glu Ala 115 120 125

Trp Thr His Pro Ser Leu Ser Leu Gly Pro Ala Pro Ser His 130 135 140

<210> 167

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 167

Met Pro Gly Gly Thr Arg Cys Arg Val Leu Leu Ser Leu Thr Phe
1 5 10 15

Gly Thr Ser Met Ala Cys Gly Asn Val Gly Leu Arg Leu Cys Pro Trp 20 25 30

Thr Trp His Asn Trp Leu Leu Pro Pro His Leu Cys Ser Xaa Trp Pro 35 40 45

Cys Arg Arg Cys Cys Trp Ala Ala Ala Thr Thr His Phe Ser Trp Pro 50 60

Pro Trp Val Arg Ser Ala Trp Gly Pro Pro Ala Ala Trp Leu Glu Ser 65 70 75 80

Ser Gly His Pro Leu Pro Ala Val Ala Ser Cys Ser Gln Pro Pro Ala 85 90 95

Ser Ala Asp Ser Ser Arg Phe Ser Lys Val Pro Cys Cys Arg Arg Arg 100 105 110

Gly Trp Thr Arg 115

<210> 168

<211> 58

<212> PRT

<213> Homo sapiens

<400> 168

Met Ser Val Cys Leu Pro Leu His Leu Pro Phe Leu Met Leu Ala Lys
1 5 10 15

Val Ala Thr Ser Phe Cys Arg Trp Gln Leu Thr Leu Phe Val Ser Thr 20 25 30

Phe Tyr Lys Asp Ala Leu Val His Thr Val Asn Asp Arg Asn Gln Glu 35 40

Ala Glu Leu Glu Ala Leu Lys Lys Ser Cys 50 55

<210> 169

<211> 125

<212> PRT

<213> Homo sapiens

<400> 169

Met Lys Ala Leu Met Leu Leu Thr Leu Ser Val Leu Leu Cys Trp Val 1 5 10 15

Ser Ala Asp Ile Arg Cys His Ser Cys Tyr Lys Val Pro Val Leu Gly 20 25 30

Cys Val Asp Arg Gln Ser Cys Arg Leu Glu Pro Gly Gln Gln Cys Leu
35 40 45

Thr Thr His Ala Tyr Leu Gly Lys Met Trp Val Phe Ser Asn Leu Arg
50 60

Cys Gly Thr Pro Glu Glu Pro Cys Gln Glu Ala Phe Asn Gln Thr Asn

Arg Lys Leu Gly Leu Thr Tyr Asn Thr Thr Cys Cys Asn Lys Asp Asn 85 90 95

Cys Asn Ser Ala Gly Pro Arg Pro Thr Pro Ala Leu Gly Leu Val Phe  $100 \hspace{1cm} 105 \hspace{1cm} 110$ 

Leu Thr Ser Leu Ala Gly Leu Gly Leu Trp Leu Leu His
115 120 125

<210> 170

<211> 86

<212> PRT

<213> Homo sapiens

<400> 170

Met Phe Leu Val Ala Val Trp Trp Arg Phe Gly Ile Leu Ser Ile Cys

1 10 15

Met Leu Cys Val Gly Leu Val Leu Gly Phe Leu Ile Ser Ser Val Thr 20 25 30

Phe Phe Thr Pro Leu Gly Asn Leu Lys Ile Phe His Asp Asp Gly Val 35 40 45

Phe Trp Val Thr Phe Ser Cys Ile Ala Ile Leu Ile Pro Val Val Phe 50 55 60

Met Gly Cys Leu Arg Ile Leu Asn Ile Leu Thr Cys Gly Ser His Trp 65 70 75 80

Ala Pro Ile Arg Trp Phe 85

<210> 171

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 171

Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Xaa 1 5 10 15

Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys 20 25 30

Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu

35 40 45

Phe Leu Ile Pro Ala Xaa Glu Ala Leu Leu Trp Glu Lys Glu 50 55 60

<210> 172

<211> 47

<212> PRT

<213> Homo sapiens

<400> 172

Met Ser Gln Leu Cys Phe Ser Leu Leu Leu Ser Ser Thr Cys His Gly
1 5 10 15

Gly Val Ala Ser Leu Leu Thr Ser Asp Leu Ser Ser Gln Ser His Arg
20 25 30

Phe Ser Ile Cys Thr Asn Val Asn His Ser Lys Tyr Ser Ser Leu 35 40 45

<210> 173

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 173

Met Leu Phe Ser Leu Arg Glu Leu Val Gln Trp Leu Gly Phe Ala Thr  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Phe Glu Ile Phe Val His Leu Leu Ala Leu Leu Val Phe Ser Val Leu 20 25 30

Leu Ala Leu Arg Val Asp Gly Leu Val Pro Gly Leu Ser Trp Trp Asn 35 40 45

Val Phe Val Pro Phe Phe Ala Ala Asp Gly Leu Ser Thr Tyr Phe Thr 50 55 60

Thr Ile Val Ser Val Arg Leu Phe Gln Asp Gly Glu Lys Arg Leu Ala 65 70 75 80

Val Leu Arg Xaa Phe Trp Val Leu Thr Val Leu Ser Leu Lys Phe Val 85 90 95

Phe Glu Met Leu Leu Cys Gln Lys Leu Ala Glu Gln Thr Arg Glu Leu 100 105 110

Trp Phe Gly Leu Ile Thr Ser Pro Leu Phe Ile Leu Leu Gln Leu Leu 115 120 125

Met Ile Arg Ala Cys Arg Val Asn 130 135

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<210> 174
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<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 174

Met Glu Leu Ser Phe Val Arg Arg Leu Leu Phe Thr Phe Phe 1 5 10 15

Ser Thr Phe Ser Pro Pro Pro Pro Thr Pro Cys Leu Glu Gly Leu Met 20 25 30

Ser Cys Leu Pro Ser Pro Leu Xaa Lys Asn Thr Ala Gly Ser Gln Thr 35 40 45

Lys Ser Leu Arg Glu Ile Gly Thr Gly Ile Ser Asp Thr His Val Ser 50 60

Pro Ser Pro Ala Gln Ala Pro Leu Cys Ser Arg Ser Pro Thr Trp Asp 65 70 75 80

Ser Ser Asp Pro Asn Ser Met Asp 85

<210> 175

<211> 57

<212> PRT

<213> Homo sapiens

<400> 175

Met Thr Met Val Met Glu Gln Val Tyr Leu Met Ser Phe Leu Leu Leu  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Leu Leu Arg Thr Met Met Lys Ala His Trp Thr Tyr Thr Leu Gly Trp 20 25 30

Thr Val Leu Phe Leu Thr Ala Leu Pro Asn Pro Val Tyr His Gln Glu 35 40 45

Ile Val Trp Thr Tyr Met Lys Arg Ser 50 55

<210> 176

<211> 63

<212> PRT

<213> Homo sapiens

<400> 176

Met Asp Thr Asp Asn Gly Gly Arg His Phe Lys Pro Phe Lys Leu Val  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Leu Phe Val Val Leu Leu Ile Lys Ile Leu Leu Ile Leu Ala Lys Thr

20 25 30

Asn Cys Cys Asp Lys Leu Val Phe Phe Gly Cys Phe Lys His Thr Leu 35 40 45

Thr Asn Phe Leu Ile Pro Leu Leu Val Pro Pro Ile Val Leu Lys
50 55 60

<210> 177

<211> 60

<212> PRT

<213> Homo sapiens

<400> 177

Met Cys Leu Trp Gly Gln Ala Asn Leu Gly Leu Ile Leu Phe Gln His  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Cys Leu Thr Lys Phe Met Gly Gly Tyr Cys Phe Gly Leu Gly Ser Cys 20 25 30

Thr Arg Pro Leu Arg Asp Gln Thr Lys Met Glu Ser Leu Ile Leu Lys 35 40 45

Leu Gln Val Thr Glu Pro Lys Leu Ser Cys Phe Ile 50 55 60

<210> 178

<211> 103

<212> PRT

<213> Homo sapiens

<400> 178

Met Gly Met Ala Gly Ala Leu Ser Ile Leu Leu Phe Ser Leu Pro Ser 1 5 10 15

His Gly Trp Pro Ser Pro Pro Lys Pro Pro Phe Pro Cys Cys Gln Pro 20 25 30

Leu Cys His Ser Leu Ile Leu Gly Arg Arg Lys Gly Arg Phe Glu Gly 35 40 45

Glu Gly Glu Lys Ala Tyr Gly Trp Val Trp Phe Leu Pro Phe Pro Glu 50 55 60

Gly Leu Thr Val Pro Gly Trp Pro Gln Gly Arg Gln Gly Pro His Tyr 65 70 75 80

Ala Cys Ala Leu Val Lys Val Thr Pro Ala Ile Tyr Gln Gln Pro Trp 85 90 95

His Val Pro Ala Pro Gln Glu 100

<210> 179

<211> 292

<212> PRT

<213> Homo sapiens

- <400> 179
- Met Leu Arg Val Leu Cys Leu Leu Arg Pro Trp Arg Pro Leu Arg Ala 1 5 10 15
- Arg Gly Cys Ala Ser Asp Gly Ala Ala Gly Gly Ser Glu Ile Gln Val
  20 25 30
- Arg Ala Leu Ala Gly Pro Asp Gln Gly Ile Thr Glu Ile Leu Met Asn 35 40 45
- Arg Pro Ser Ala Arg Asn Ala Leu Gly Asn Val Phe Val Ser Glu Leu 50 60
- Leu Glu Thr Leu Ala Gln Leu Arg Glu Asp Arg Gln Val Arg Val Leu 65 70 75 80
- Leu Phe Arg Ser Gly Val Lys Gly Val Phe Cys Ala Gly Ala Asp Leu
  85 90 95
- Lys Glu Arg Glu Gln Met Ser Glu Ala Glu Val Gly Val Phe Val Gln 100 105 110
- Arg Leu Arg Gly Leu Met Asn Asp Ile Ala Ala Phe Pro Ala Pro Thr 115 120 125
- Ile Ala Ala Met Asp Gly Phe Ala Leu Gly Gly Gly Leu Glu Leu Ala 130 135 140
- Leu Ala Cys Asp Leu Arg Val Ala Ala Ser Ser Ala Val Met Gly Leu 145 150 155 160
- Ile Glu Thr Thr Arg Gly Leu Leu Pro Gly Ala Gly Gly Thr Gln Arg 165 170 175
- Leu Pro Arg Cys Leu Gly Val Ala Leu Ala Lys Glu Leu Ile Phe Thr 180 185 190
- Gly Arg Arg Leu Ser Gly Thr Glu Ala His Val Leu Gly Leu Val Asn 195 200 205
- His Ala Val Ala Gln Asn Glu Glu Gly Asp Ala Ala Tyr Gln Arg Ala 210 215 220
- Arg Ala Leu Ala Gln Glu Ile Leu Pro Gln Ala Pro Ile Ala Val Arg 225 230 235 240
- Leu Gly Lys Val Ala Ile Asp Arg Gly Thr Glu Val Asp Ile Ala Ser 245 250 255
- Gly Met Ala Ile Glu Gly Met Cys Tyr Ala Gln Asn Ile Pro Thr Arg 260 265 270
- Asp Arg Leu Glu Gly Met Ala Ala Phe Arg Glu Lys Arg Thr Pro Lys 275 280 285
- Phe Val Gly Lys 290

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<210> 180
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<211> 45

<212> PRT

<213> Homo sapiens

<400> 180

Met Leu Ser Ser Leu Tyr Leu Leu Met Pro Pro Tyr Lys Phe Thr
1 5 10 15

Gly Glu Leu His Pro Pro Val Ala Ala Thr Cys Leu Leu Thr Val Leu 20 25 30

Leu Gly Cys Leu Ile Gly Val Ser Ser Asp Gly Trp Ile 35 40 45

<210> 181

<211> 46

<212> PRT

<213> Homo sapiens

<400> 181

Met Cys Ile Pro Glu Ala Leu Gly Lys Asn Ser Leu Phe Leu Ser Ser 1 5 10 15

Thr Phe Leu Trp Leu Leu Ala Phe Phe Gly Leu Trp Ser His His Ser 20 25 30

Tyr Leu Glu Gly Gln His Leu Gln Ile Cys Phe Phe Thr 35 40 45

<210> 182

<211> 54

<212> PRT

<213> Homo sapiens

<400> 182

Met Thr Thr Ser Leu Phe Gly Leu Val Cys Val Val Cys Gln Gly Ala 1 5 10 15

Gly Val Ser Ala Phe Thr Gln Val Asn Leu Phe Ser Phe Ser Leu Val 20 25 30

Ile Val Lys Lys Gln Asn Lys Thr Ser Cys Glu Pro Phe Gly Thr Ser 35 40 45

Gly Lys Val Pro Leu Leu 50

<210> 183

<211> 66

<212> PRT

<213> Homo sapiens

<400> 183

Met Leu Ile Tyr Trp Leu Gln Ser Ser Phe Ile Leu Ser Ala Phe Val 1 5 10 15

```
Leu Ile Asn Ser Pro Val Thr Thr Gly Ile Gln Lys Ser Cys Cys Lys
20 25 30
```

Phe Phe Pro Val Ser Ile Asn Leu Cys Phe Ala Ser Leu His Arg Met 35 40 45

Lys Val Val Thr Leu Val Ala Leu Gln Trp Leu Asn Ile Ala Leu Arg
50 55 60

Ser Ser 65

<210> 184

<211> 50

<212> PRT

<213> Homo sapiens

<400> 184

Met Val Cys Cys Gly Phe Phe Leu Leu Trp Ser Arg Val Arg Ser Tyr 1 5 10 15

Met Lys Leu Ser Gly His Arg Trp Ser Ser Ser Cys Pro His His Cys 20 25 30

Tyr Ser Lys Cys Gly Leu His Thr Ser Asn Gly Lys Ser Ser Val His 35 40 45

Thr Val

<210> 185

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 185

Met Leu Arg Cys Ser Phe Ser Ser Phe Leu Leu Cys His Thr Ile Leu 1 5 10 15

Leu Phe Leu Gly Ser Ser Ala His Leu Leu Val Glu Xaa Xaa Val Trp
20 25 30

Gly Leu Tyr Glu Tyr Arg Ile Gly Asp Met Val Asp Gln Lys Ala Thr

35 40 45

Phe Cys Val Gln Lys Gln Glu Cys Leu Phe Pro Leu Gly Ser Trp Val 50 55 60

Xaa Arg Val Glu Gly Gly Ala Phe Ala Arg Glu Pro Pro Ser Ser Thr 65 70 75 80

Gln Tyr Phe Pro Val Ser Cys Leu Tyr Gln 85 90

<210> 186

<211> 54

<212> PRT

<213> Homo sapiens

<400> 186

Met Ser Ala Leu Leu Ser His His Val Pro Leu Phe Tyr Leu Thr Gly
1 5 10 15

Cys Leu Phe Ser Leu Leu Ala Ser Trp Asp Cys Asn Gly Lys Glu Gly 20 25 30

Ala Gly Arg Ala Ile Lys Gly Lys Asn Asn Thr Trp Asn Cys Met Ile 35 40 45

Leu Ser Lys Val Lys Phe 50

<210> 187

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 187

Met Val His Lys Ala Ile Leu Ala Leu Leu Pro Trp Gly Phe Ser Ala 1 5 10 15

Asp Glu Leu Leu Ala Ser Leu Met Met Xaa Leu Thr Glu Lys Tyr Gln 20 25 30

Asn Cys Ser Ser Thr Thr Asp Ile Xaa Asn Gln Gln Leu Arg Ser Leu 35 40 45

Gly Gln Asn Phe Met Phe Gln Gln Asn Leu Gln Leu Ile Leu Met 50 55 60

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<210> 188
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<211> 112

<212> PRT

<213> Homo sapiens

<400> 188

Met Met Thr Ser Ser Leu Gly Leu Ser Phe Leu Leu Asn Leu Ile Leu 1 5 10 15

Gly Met Lys Phe Thr Tyr Leu Ile Pro Gln Asn Lys Tyr Ile Gln Leu 20 25 30

Phe Thr Thr Ile Leu Ser Phe Phe Ser Gly Val Leu Ser Leu Leu Glu 35 40 45

Cys Lys Leu Ser Thr Ser Ser Cys Thr Cys Leu Asn Ile His Lys Ser 50 55 60

Asp Asn Glu Cys Lys Glu Ser Glu Asn Ser Ile Glu Asp Ile Ser Leu 65 70 75 80

Pro Glu Arg Thr Ala Met Pro Arg Ser Ile Val Arg Ala His Thr Val 85 90 95

Asn Ser Leu Asn Lys Lys Val Gln Thr Arg His Val Thr Trp Ala Leu 100 105 110

<210> 189

<211> 59

<212> PRT

<213> Homo sapiens

<400> 189

Met Leu His Leu Thr Leu Tyr Leu His Phe Ile Leu Phe Val Phe Pro 1 5 10 15

Ile Thr Ser Asn Phe Ser Ser Leu His Pro Phe Leu Phe Ile Ser Ser 20 25 30

Gln Phe Thr Ser Cys Cys Gln Ile Asn Phe Pro Asn Ala Gln Ala Leu 35 40 45

Ser Tyr His Glu Phe Leu Ile Ala Thr Tyr Asp

<210> 190

<211> 63

<212> PRT

<213> Homo sapiens

<400> 190

Met Pro Cys Ile Arg Gly Val Phe His Cys Phe Ile Leu Ile Ile Leu 1 5 10 15

Ile Leu Leu Ala Ser His Ala Phe Ser Gly Ser Gly Asn Gln Arg Leu

20 25 30

Lys Glu Ala Leu Thr Leu Ile Val Ser Val Asn Val Asp Ile Ala Arg
35 40 45

His Arg Pro Phe Leu Glu Arg Ile His Val Lys Lys Gly Asn Thr 50 55 60

<210> 191

<211> 70

<212> PRT

<213> Homo sapiens

<400> 191

Met Phe Ser Arg Leu His Phe Leu Thr His Ser Leu Ser Leu Leu His 1 5 10 15

Leu Pro Ser Gln Val Phe Gly Glu Val His Ser Ser Cys Val Ser Ser 20 25 30

Leu Pro Cys Pro Asp Thr Pro Ala Leu Pro Tyr Cys Pro Ser Phe Leu 35 40 45

Arg Tyr Asp Asp His Ile Glu Ala Gln Pro Leu Lys His Ile Asn Thr 50 55 60

Asn Asp His Ile Ser Ile 65 70

<210> 192

<211> 174

<212> PRT

<213> Homo sapiens

<400> 192

Met Tyr Val Arg Phe Phe Phe Arg Leu His Ser Ile Ser Ser His Pro 1 5 10 15

Ser Gly Ile Val Ser Leu Cys Leu Leu Phe Glu Thr Leu Leu Gln Thr 20 25 30

Tyr Leu Pro Gln Leu Phe Tyr His Leu Arg Glu Ile Gly Ala Gln Pro 35 40 45

Leu Arg Ile Ser Phe Lys Trp Met Val Arg Ala Phe Ser Gly Tyr Leu 50 55 60

Ala Thr Asp Gln Leu Leu Leu Leu Trp Asp Arg Ile Leu Gly Tyr Asn 65 70 75 80

Ser Leu Glu Ile Leu Ala Val Leu Ala Ala Val Phe Ala Phe Arg 85 90 95

Ala Val Asn Leu Met Glu Val Thr Ser Leu Ala Ala Ala Glu Asn Leu 100 105 110

Ala Ala His Ser Glu Gln Phe Cys Thr Ala Pro Leu Phe Pro Glu Leu 115 120 125 Tyr Arg Val Gln Ile Pro Val Leu Leu Asn Ser Gly Arg Lys Lys Ser 130 135 140

Ala Val Tyr Trp Thr Pro Ile Ser Phe Asn Arg Thr Lys Lys Leu Arg
145 150 155 160

Leu Gln Gly Arg Thr Tyr Asn Asp Gly Ser Trp Asn Ile Thr 165 170

<210> 193

<211> 192

<212> PRT

<213> Homo sapiens

<400> 193

Met Glu Ala Leu Leu Gln Ser Leu Val Ile Val Leu Leu Gly Phe Lys

1 10 15

Ser Phe Leu Ser Glu Glu Leu Gly Ser Glu Val Leu Asn Leu Leu Thr 20 25 30

Asn Lys Gln Tyr Glu Leu Leu Ser Lys Asn Leu Arg Lys Thr Arg Glu 35 40 45

Leu Phe Val His Gly Leu Pro Gly Ser Gly Lys Thr Ile Leu Ala Leu 50 55 60

Arg Ile Met Glu Lys Ile Arg Asn Val Phe His Cys Glu Pro Ala Asn 65 70 75 80

Ile Leu Tyr Ile Cys Glu Asn Gln Pro Leu Lys Lys Leu Val Ser Phe 85 90 95

Ser Lys Lys Asn Ile Cys Gln Pro Val Thr Arg Lys Thr Phe Met Lys 100 105 110

Asn Asn Phe Glu His Ile Gln His Ile Ile Ile Asp Asp Ala Gln Asn 115 120 125

Phe Arg Thr Glu Asp Gly Asp Trp Tyr Gly Lys Ala Lys Phe Ile Thr 130 140

Gln Thr Ala Arg Asp Gly Pro Gly Val Leu Trp Ile Phe Leu Asp Tyr 145 150 155 160

Phe Gln Thr Tyr His Leu Ser Cys Ser Ala Ser Pro Leu Pro Gln Thr 165 170 175

Ser Ile Gln Glu Lys Arg Ser Thr Glu Trp Ser Ala Met Gln Val Gln 180 185 190

<210> 194

<211> 111

<212> PRT

<213> Homo sapiens

<400> 194

Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala 1 5 10 15

Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val 20 25 30

Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp 35 40 45

Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln 50 55 60

Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala 65 70 75 80

Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala 85 90 95

Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu
100 105 110

<210> 195

<211> 79

<212> PRT

<213> Homo sapiens

<400> 195

Met Cys Arg Pro Leu Leu Pro Leu Leu Phe Pro Trp Gly His Cys Leu 1 5 10 15

Ser Ile Pro Leu Cys Lys Trp Pro Gln Ile Met Ser Gln Pro Pro Arg 20 25 30

Leu His Arg Leu Leu Ala Ser Gly Pro Ser Thr Lys Lys His Ser Lys 35 40 45

Leu Gln Thr His Ser Trp Glu Asn Ser Asn Gly Leu Thr Leu Pro Phe 50 55 60

Glu Pro Ala Arg Ser His Gly Leu Trp Arg Ala Ala Phe Glu Ser 65 70 75

<210> 196

<211> 87

<212> PRT

<213> Homo sapiens

<400> 196

Met Leu Ser Ile Ile Asp Leu Leu Phe Leu Leu Ser Pro Thr Phe Gly
1 5 10 15

Leu Ile Thr Glu Leu Leu Phe Ser Pro Glu Val Pro Lys Ala Leu Ser

Cys Pro Leu Lys Ala Leu Gly Gly Ser His Ser His Glu Pro Leu

35 40 45

Gly Met Phe Ala Pro Val Pro Pro Gly Cys Glu Ser Ser Thr Pro Phe 50 55 60

Pro Lys Gly Leu Gly Ala Ser Lys Ile Leu Thr Leu Gly Ala Gln Ala 65 70 75 80

Glu Phe Arg Arg Arg Ser His 85

<210> 197

<211> 41

<212> PRT

<213> Homo sapiens

<400> 197

Met Glu Asp His Phe Leu Ile Gly His Phe Pro Phe Phe Leu Phe  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Ser Phe Pro Cys Phe Cys Thr Lys Pro Leu Cys Arg Glu Tyr Phe Leu 20 25 30

Ile Cys Ser Ile Gln Asp Glu Ser Lys 35 40

<210> 198

<211> 68

<212> PRT

<213> Homo sapiens

<400> 198

Met Phe Asn Leu Pro Lys Pro Val Phe Leu Ser Trp Trp Arg Trp Lys 1 5 10 15

Thr Ile Val Ile Phe Leu Ala Cys Leu Ala Ser Ala Ala Ile Lys Glu 20 25 30

Thr Ala Val Ser Met Lys Thr Val Phe Pro Ile Phe Val Gln Ile Thr  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Leu Ile Leu Leu Glu Ser Arg Val Leu Lys Ile Gly Asp Phe Ser 50 55 60

Asn Phe Phe Cys

65

<210> 199

<211> 152

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
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<221> misc\_feature

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

#### <220>

<221> misc\_feature

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

#### <220>

<221> misc\_feature

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

#### <220>

<221> misc\_feature

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

# <220>

<221> misc\_feature

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

### <220>

<221> misc\_feature

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

## <220>

<221> misc\_feature

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

# <220>

<221> misc\_feature

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

### <400> 199

Met Asp His Ser Pro Thr Thr Gly Val Val Thr Val Ile Val Ile Leu
1 5 10 15

Ile Ala Ile Ala Ala Leu Gly Ala Phe Asp Pro Gly Leu Leu Val Leu 20 25 30

Pro Ala Ala Ala His Gln Pro Val Arg Gly Arg Gly Glu His Arg 35 40 45

Gly Gly Trp Gly Asp Gln Gly Thr Leu Pro Ala Gly Ala Val Phe Gly 50 55 60

Gln Xaa Thr Val Arg Gly Glu Lys Gly Gln Ala Asp Xaa Ser Gln Thr
65 70 75 80

Xaa Arg Lys Xaa Thr Xaa Xaa Pro Gly Cys Lys Gly Xaa Leu Val Pro 85 90 95

Val Cys Lys Pro Ala Lys Xaa Gly Leu Gly Gly Ala Lys Xaa Ile Arg

100 105 110

Met Arg Cys Cys Leu Arg Gly Arg Ala Asp Thr Cys Trp His Gly Leu 115 120 125

Cys Gly Phe Arg Pro Ser His Ala Leu Met Pro Gly Asp Leu Ala Val 130 135 140

Leu Gly Phe Pro Ser Ala Ser Arg 145 150

<210> 200

<211> 62

<212> PRT

<213> Homo sapiens

<400> 200

Met Lys Asn Ser Thr Ser Leu Leu Tyr Lys Leu Phe Ser Ser Leu Ser 1 5 10 15

Val Phe Ile Phe Lys Phe Leu Leu Phe Tyr Thr Leu His Ile Ala 20 25 30

Leu Gly Val Lys Ile Gln Tyr Lys Pro Leu Ala His Phe Ile Asp His
35 40 45

Ser Cys Ile Gln Gln Val Ser Gln Val Gln Trp Ser Ile Pro 50 55 60

<210> 201

<211> 63

<212> PRT

<213> Homo sapiens

<400> 201

Met Gln Glu Pro His Gly Lys Phe Leu Ser Trp Gly Arg Trp Leu Trp 1 5 10 15

Trp Trp Ser Leu Ala Ala Pro Ala Leu Val Gln Ala Val Asn Met Pro 20 25 30

Pro Ala Tyr Ile Gln Ile Glu Asn Trp Tyr Met Met Leu Leu Met Gly
35 40 45

Trp Glu Thr Lys Cys Cys His Val Arg Ser Leu Trp Val Gly Thr 50 55 60

<210> 202

<211> 42

<212> PRT

<213> Homo sapiens

<400> 202

Met Leu Ile Asn Cys Ile Phe Ser Leu Leu Leu Leu Leu Ser His Ala  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Asp Gly Met His Leu Phe Ile Ser Ser Gly Asp Arg Ile Leu Phe Cys

20 25 30

Leu Tyr Phe Leu His Ser Arg Val Cys Ala 35 40

<210> 203

<211> 40

<212> PRT

<213> Homo sapiens

<400> 203

Met Ser Val Tyr Val Asn Ile Met His Ile Val Ile Tyr Ile Tyr Leu

1 10 15

Cys Val Tyr Met Cys Val Ala Gln Ser His Thr His Thr Gln Ile Cys
20 25 30

Ile Gln Met Leu Pro Gly Leu Gln
35 40

<210> 204

<211> 43

<212> PRT

<213> Homo sapiens

<400> 204

Met Ile Leu Ser Phe Leu Met Leu Phe Leu Ile Val Lys Thr Ile Pro  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Leu Ile Leu Ala Tyr Cys Tyr Asn Ser Ile Ser Phe Phe Ser Asn Asn 20 25 30

Leu Val Leu Val Lys Met Gly Tyr Asn Asn Lys 35

<210> 205

<211> 41

<212> PRT

<213> Homo sapiens

<400> 205

Met Arg Leu Leu Ser Thr Leu Leu Ser Phe Tyr Pro Phe Ser Asn Cys  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Phe Leu Leu Ser Phe Cys Asp Ser His Pro Pro Val Trp Leu Arg Asn 20 25 30

Ser Gln Val Phe Pro Glu Glu Val Val 35 40

<210> 206

<211> 41

<212> PRT

<213> Homo sapiens

<400> 206

Met Thr Gly Lys Leu Trp Leu Leu Pro Arg Leu Gly His Ala Ala 1 5 10 15

Ala Ala Pro Thr Thr Ala Leu Ser Gly Ser Glu Leu Glu Gly Thr Ser 20 25 30

Ile Ser Leu Leu Ile Ala Leu Asp Arg
35 40

<210> 207

<211> 112

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (57)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 207

Met Ala Pro Trp Leu Pro Leu Leu Ser Leu Leu Gly Leu Leu Leu Gly 1 5 10 15

Xaa Ala Pro Ala Pro Pro Arg Arg Ala Ala Asp Ala Gln Ala Arg Glu 20 25 30

Ala Ala Tyr Pro Glu Leu Leu Gly Pro Ala Arg Phe Ala Leu Glu Met  $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$ 

Tyr Asn Arg Gly Arg Ala Ala Gly Xaa Arg Ala Thr Leu Gly Ala Val 50 55 60

Arg Gly Arg Val Arg Arg Ala Gly Glu Gly Ser Leu Tyr Ser Leu Arg 65 70 75 80

Ala Thr Leu Glu Glu Pro Pro Cys Asn Xaa Xaa Thr Val Cys Gln Leu 85 90 95

Pro Val Ser Lys Arg Pro Cys Ser Ala Ala Leu Lys Ser Trp Thr Ser 100 105 110

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<210> 208
<211> 44
<212> PRT
<213> Homo sapiens
<400> 208
Met Pro Thr Trp Pr
1
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Met Pro Thr Trp Pro Leu Leu Gln Leu Leu Ser Cys Ser Phe Pro Ser 1 5 10 15

Leu Leu Cys Glu Thr Phe Thr Phe Cys Ser Lys Asp Glu Val Ser Arg 20 25 30

Trp Lys Ala Gly Cys Phe Val Pro Leu Pro Ala Ser 35 40

<210> 209 <211> 123 <212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 209

Met Thr His Trp Ser Gly Cys Ala Ala Leu Tyr Leu Ile Phe Leu Ser 1 5 10 15

Leu Lys Leu Ala Phe Gln Ala Gly Ala Gly Arg Gly Ala Gln Val Gly 20 25 30

Ser Val Leu Pro Pro Ser Gly Gly Ala Val Val Val Asp Gln Ile Leu 35 40 45

Leu Pro Pro Val Cys Thr Asn Ile Phe Leu Ser Ser Ser Pro Ser Glu 50 55 60

Val Tyr Trp Asn Met Ser Xaa Thr Ile Met Met Val Val Lys Met Met 65 70 75 80

Met Met Trp Val Ile Leu Ala Thr Leu Leu Gly Pro Ser Ser Pro Gln 85 90 95

Phe Val Ala Gln Ser Thr Leu His Thr Phe Ser Leu Val Leu Ile Lys 100 105 110

Pro Pro Phe Arg Val Gly Phe Ser Val Leu Phe 115 120

<210> 210

<211> 41

<212> PRT

<213> Homo sapiens

<400> 210

Met Ile Asn Phe Trp Pro Val Thr His Val Cys Ile Trp Leu Leu Trp

1 5 10 15

Leu Gln Ala Leu Glu Ala Arg Gly Gln Gly Ser Asn Ile Asp Cys Thr 20 25 30

Arg Asn Ser Lys Thr Val Phe Thr Ser 35 40

<210> 211

<211> 50

<212> PRT

<213> Homo sapiens

<400> 211

Met Tyr Ile Tyr Leu Ile His Leu Cys Met Cys Val Tyr Ile Tyr Ile 1 5 10 15

Tyr Ile Leu Leu Ile Ile Tyr Thr Leu Asp Pro Glu Pro Pro Ser Trp
20 25 30

Ser Pro Lys Leu Asp Ser His Leu Ser Leu Arg Gln Pro Ser Asn Asp 35 40 45

Arg Phe 50

<210> 212

<211> 64

<212> PRT

<213> Homo sapiens

<400> 212

Met Phe Val Leu Cys Thr Arg Ala Val Arg Thr Arg Leu Phe Ser Leu
1 5 10 15

Cys Cys Cys Cys Ser Ser Gln Pro Pro Thr Lys Ser Pro Ala Gly
20 25 30

Thr Pro Lys Ala Pro Ala Pro Ser Lys Pro Gly Glu Ser Gln Glu Ser 35 40 45

Gln Gly Thr Pro Gly Glu Leu Pro Ser Thr Trp Ser Phe Cys Pro Phe 50 55 60

<210> 213

<211> 76

<212> PRT

<213> Homo sapiens

<400> 213

Met Leu Ala Leu Leu Val Gly Gly Leu Val Ala Ala Leu Ala Cys His 1 5 10 15

Gly Ile Leu Ala Ala Ile Leu Ala Val Cys Gly Glu Leu Val Ser Gly

20 25 30

Lys Gly Thr Arg Ser Ser Asp Glu Asp Asp Gly Gly Asp Gly Asp Arg 35 40 45

Gly His Arg Gly Leu Ser Leu Leu Asn Ser Ala Phe Gly His Met Gly 50 55 60

Asp Gly Asp Arg Lys Asp Asp Asn Ser Gly Thr Leu 65 70 75

<210> 214

<211> 44

<212> PRT

<213> Homo sapiens

<400> 214

Met Phe Val Gly Thr Arg Val Leu Leu Val Pro Leu Pro Phe Phe Ser 1 5 10 15

Ile Ser Gly Met Leu Ala Ile Asp Lys Tyr Leu His Lys Lys Leu Leu 20 25 30

Leu Asn Glu Ile Ile Thr Thr Ser Thr Trp Ala Leu
35 40

<210> 215

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 215

Met Gly Lys Gly His Gln Arg Pro Trp Trp Lys Val Leu Pro Leu Ser 1 5 10 15

Cys Phe Leu Val Ala Leu Ile Ile Trp Cys Xaa Leu Arg Glu Glu Ser 20 25 30

Glu Ala Asp Gln Trp Leu Arg Gln Val Trp Gly Glu Val Pro Glu Pro
35 40 45

Ser Asp Arg Ser Glu Glu Pro Glu Thr Pro Ala Ala Tyr Arg Ala Arg
50 55 60

Thr

65

<210> 216

<211> 61

<212> PRT

<213> Homo sapiens

Met Arg Leu Cys Thr Thr Trp Met Ala Val Lys Phe Leu Trp Trp Gly  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Met Thr Trp Ile Pro Ser Gly Lys Ala Cys Ser Trp Thr Gln Pro Leu 20 25 30

Cys Ser Ser Gly Gly Trp Ser Ser Pro Thr His Leu Pro Thr Ser Leu  $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$ 

Leu Leu Gly Trp Arg Ala Ser Leu Cys Met Lys Arg Ser 50 55 60

<210> 217

<211> 55

<212> PRT

<213> Homo sapiens

<400> 217

Met Phe Ala Ser Tyr His Ile Gln Phe Phe Thr Trp Leu Ile Gln Lys

1 10 15

Leu Ser Leu Val Trp Lys Ser Val Val Ala Ile Arg Glu Gln Gly Lys
20 25 30

Glu Leu Val Trp Lys Gln His Leu Pro Leu Arg Ser Tyr Ser Pro Asn 35 40 45

Asn Ala Lys Ser Leu Gly Leu 50 55

<210> 218

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 218

Met Leu Ser Phe Asn Phe Thr Trp Met Val Trp Val Ser Leu Val Leu
1 5 10 15

Lys Ser Gln Arg Ala Lys Leu Ala Leu His Ser Leu His Leu His Gln 20 25 30

Glu Val Arg Leu Arg Met Ser Arg Arg Glu Ser Pro Gly Arg Pro Leu 35 40 45

Arg Cys Gly Val Arg Gly Asn Met Gly Ala Arg Thr Pro Val Pro Thr 50 55 60

Ala Asp Tyr Pro Ser Pro Tyr Arg Thr Leu Pro Arg Met Ala Ala Pro 65 70 75 80

Pro Pro Gln Lys Ser Ser Cys Xaa Arg Leu His Arg Pro His Trp Trp

90 95

Arg Pro Arg Thr Pro Ser Ser Glu Lys Thr Gly Gly Gln Ser Gln Ser 100 105 110

Thr Leu Asp Arg Cys Ala His Leu Val His Met Leu Leu Arg Asp Gln 115 120 125

Arg Ala Thr Ser Gln Trp Lys Ala Gly Gly Arg Leu Cys Arg Ala Leu 130 135 140

Ser Lys Thr Pro Leu Gln His Gln Leu His Ser Thr Ser Tyr Arg Lys 145 150 155 160

Ala Leu Pro Ile Leu Arg Pro Ser Ser Arg Arg Glu Ala Gly Pro Leu 165 170 175

His His Ile Asp Leu Arg Arg Cys Phe Ser Arg Leu Gly Arg Gly Ala 180 185 190

Asp Phe Ala Val Cys Ala Lys Glu Pro Val Ser Asp Asn Pro Ile Phe 195 200 205

Leu Leu Ile Thr 210

<210> 219

<211> 40

<212> PRT

<213> Homo sapiens

<400> 219

Met Asn Met Phe Gln Thr Ile Leu Val Cys Val Leu Phe Val Phe Val 1 5 10 15

Arg Trp Phe Phe Leu Leu Gln Ile Glu Ser Ile Gln Thr Lys Phe 20 25 30

His Cys Ile Ser Ser Gln Phe Trp 35 40

<210> 220

<211> 59

<212> PRT

<213> Homo sapiens

<400> 220

Met Glu Leu Val Trp Phe Arg Phe Leu His Leu Asn Leu Leu Pro Arg 1 5 10 15

Gly Val Cys Cys Gly Ile Cys Val Cys Val Arg Arg Gly Met Val Leu 20 25 30

Ser Glu Pro Thr Ser Cys Gly Gln Arg Ala Leu Ser Cys Glu Gly Gly 35 40 45

Cys His Ser Gly Arg Val Gln Phe Arg Arg Pro 50 55

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<210> 221
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<212> PRT

<213> Homo sapiens

<400> 221

Met Arg Arg Met Arg Met Lys Ser Leu Ser Pro Arg Arg Ser Trp Trp  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Thr Leu Trp Leu Gly Gln Gly Val Leu Gly Ala Ala Leu Lys Ala Asn 20 25 30

Thr Leu Trp Ile Ala Met Arg Arg Met Met Met Met Gly Gly Pro 35 40 45

Ala Asn Met Thr Ser Trp Pro Gln Arg Met
50 55

<210> 222

<211> 45

<212> PRT

<213> Homo sapiens

<400> 222

Met Pro Phe Phe Leu Leu Thr Phe Pro Leu Val Leu Tyr Pro His Leu  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Ser Arg Gly Ser Asp Pro Val Leu Pro Cys Val Met Gly Ile His Val 20 25 30

Phe Gly Leu Ser His His Ser Arg Lys Val Ala Pro Pro
35 40 45

<210> 223

<211> 61

<212> PRT

<213> Homo sapiens

<400> 223

Met Asp Arg Val Arg Phe Arg Ser Trp Leu Leu Tyr Pro Cys Cys Val 1 5 10 15

Ala Leu Gly Gln Glu Leu Gly Leu Ser Ala Pro Gln Trp Leu Ile Thr
20 25 30

Glu Asn Gly Met Pro Ala Leu Ala Leu Val Gly Cys Phe Glu Pro Thr 35 40 45

Ala Gly Ser Gly Ser Ser Trp His Asp Val Phe Leu Pro
50 55 60

<210> 224

<211> 51

<212> PRT

Met Lys Leu Asn Val His Phe Leu Trp Cys Thr Phe Ile Phe Gln Thr 1 5 10 15

Ser Gly Ser His Ile Glu Leu Leu Ile Ser Gly Gln Val Ser Ser Tyr 20 25 30

Ile Pro Ser Leu Asp Phe Cys Thr His Lys Val Val Ser Arg Glu Lys
35 40 45

Phe Glu Glu 50

<210> 225

<211> 50

<212> PRT

<213> Homo sapiens

<400> 225

Met Ala Ser Pro Val Phe Lys Thr Phe Trp Arg Leu Glu Leu Ser Val 1 5 10 15

Pro Leu Ser Leu Leu Phe Ile Leu Gln Ile Val Thr Ser Leu Ser Ser 20 25 30

Asp Glu Ile Cys Tyr Ser Thr Arg Lys Val Phe Ile Ile Arg Arg Gln 35 40 45

Leu Tyr 50

<210> 226

<211> 46

<212> PRT

<213> Homo sapiens

<400> 226

Met Cys Met Cys Val Gly Val Cys Leu Ile Thr Leu Leu Asp Arg Phe 1 5 10 15

Leu Trp Phe Gly Thr Ala Gly Ala Lys Phe Ile Gln Lys Ser Thr Phe 20 25 30

Leu Ser Lys Leu Pro Met Thr Leu Val Ser Phe His Ser Ile 35 40 45

<210> 227

<211> 51

<212> PRT

<213> Homo sapiens

<400> 227

Met Cys Pro Phe His Lys Ala Tyr Leu Asp Cys Phe Phe Gln Ile Ser 1 5 10 15

Leu Leu Leu Ile Phe Leu Thr Tyr Leu Asp Ile Gly Lys Cys Gly

20 25 30

Leu Trp Ser His Glu Trp Arg Ile Arg Glu Leu Gly Lys His Glu Arg
35 40 45

Trp Trp Asn 50

<210> 228

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 228

Met Asn Gln Pro Ile Leu Arg Ser Gln Ala Leu Leu Trp Pro Trp Arg

1 5 10 15

Trp Val Val Lys Ala Lys Pro Cys Val Cys Val Ser Met Asp Ala Trp
20 25 30

Ile Pro Asp Arg Ser Gln His Cys Pro Ser Ile Pro Gly Gln Lys Lys
35 40 45

Glu Arg Ala Gly Ser His Gly His Gln Ala Leu Ala Xaa Leu Leu Phe 50 55 60

Leu 65

<210> 229

<211> 46

<212> PRT

<213> Homo sapiens

<400> 229

Met Ala Ser Arg Gly Thr Ala Ala Pro Gly Arg Thr Phe Leu Ala Met 1 5 10 15

Met Val Thr Ser Phe Phe Phe Cys Met Arg Trp Gly Ser Trp Ala Glu 20 25 30

Gln Met Pro Gln Arg Cys Leu Pro Cys Cys Met Gln Glu Cys 35 40 45

<210> 230

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (184)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 230

Met Ala Gly Gly Val Arg Pro Leu Arg Gly Leu Arg Ala Leu Cys Arg 1 5 10 15

Val Leu Leu Phe Leu Ser Gln Phe Cys Ile Leu Ser Gly Glu Ser 20 25 30

Thr Glu Ile Pro Pro Tyr Val Met Lys Cys Pro Ser Asn Gly Leu Cys
35 40 45

Ser Arg Leu Pro Ala Asp Cys Ile Asp Cys Thr Thr Asn Phe Ser Cys 50 55 60

Thr Tyr Gly Lys Pro Val Thr Phe Asp Cys Ala Val Lys Pro Ser Val 65 70 75 80

Thr Cys Val Asp Gln Asp Phe Lys Ser Gln Lys Asn Phe Ile Ile Asn 85 90 95

Met Thr Cys Arg Phe Cys Trp Gln Leu Pro Glu Thr Asp Tyr Glu Cys 100 105 110

Thr Asn Ser Thr Ser Cys Met Thr Val Ser Cys Pro Arg Gln Arg Tyr 115 120 125

Pro Ala Asn Cys Thr Val Arg Asp His Val His Cys Leu Gly Asn Arg 130 135 140

Thr Phe Pro Lys Met Leu Tyr Cys Asn Trp Thr Gly Gly Tyr Lys Trp 145 150 155 160

Ser Thr Ala Leu Ala Leu Ser Ile Thr Leu Gly Gly Phe Gly Ala Asp 165 170 175

Arg Phe Tyr Leu Gly Gln Trp Xaa Glu Gly Leu Gly Lys Leu Phe Ser 180 185 190

Phe Gly Gly Leu Gly Ile Trp Thr Leu Ile Asp Val Leu Leu Ile Gly 195 200 205

Val Gly Tyr Val Gly Pro Ala Asp Gly Ser Leu Tyr Ile 210 215 220

<210> 231

<211> 48

<212> PRT

<213> Homo sapiens

<400> 231

Met Cys Ile His Tyr Ser Arg Val Ile Phe Ser Phe Leu Lys Leu Arg
1 5 10 15

Ile Lys Ser Ile Ser Trp Tyr Ala Met Trp Leu Tyr Phe Phe Cys Tyr 20 25 30

Leu Asn Cys Leu Ala Lys Val Arg Ser Ala Thr Thr Tyr Leu Tyr Val 35 40 45

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<210> 232
<211> 40
<212> PRT
<213> Homo sapiens
<400> 232
Met Leu Pro Val Cys Val Phe Lys Leu Leu Leu Tyr Leu Tyr Val Leu
                                     10
Ile Arg Ile Cys Thr Ile Ile Trp Cys Phe Lys Val Tyr Ile Asn Ala
                                 25
             20
Val Ile Leu Asn Lys Ser Ser Arg
<210> 233
<211> 52
<212> PRT
<213> Homo sapiens
<400> 233
Met Asn Cys Gly Gly Ser Thr Leu Cys Val Leu Ser Phe Cys Ser Val
Val Cys Ser Val Glu Ala Ser Cys Gln Ser Thr Val Gln Trp Gly Gly
Ala Ala Arg Val Gly Val Pro Phe Asp Trp Ser Arg Asn Glu Gln
                             40
Gly Lys Gly His
     50
<210> 234
<211> 49
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 234
Met Leu Gly Ser Ile Pro Lys Leu Trp Ser Val Leu Ser Phe Ser Ile
Asn Phe Cys Phe Cys Cys Phe Ile Leu Ser Leu Leu Cys Leu Ser Val
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25

Leu Ser Asn Tyr Leu Phe Lys Thr Pro Arg Thr Trp Xaa Thr Leu His
35 40 45

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<210> 235
<211> 44
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 235
Met Cys Leu Pro Leu Leu His Cys Thr Gly Ala Leu Trp Gly Lys Xaa
                                      10
Val Leu Leu Phe Leu Tyr Cys Leu Ala Gln Ser Phe Ala Tyr Ser Arg
             20
                                  25
                                                      30
His Gln Thr Val Gly Leu Val Val His Asp Tyr Trp
<210> 236
<211> 54
<212> PRT
<213> Homo sapiens
<400> 236
Met Cys Trp Ile Cys Val Trp Leu Phe Phe Ser Pro Thr Lys Thr Ser
Cys Phe Pro Trp Leu Ile Arg Pro Gly Pro Arg Ser Phe Thr Asp Ser
His Gly Thr Pro Pro Trp Gln Cys Leu Glu Pro Ser Ser Phe Thr Tyr
Pro Gly Lys Gln Val Trp
     50
<210> 237
<211> 68
<212> PRT
<213> Homo sapiens
<400> 237
Met Lys Arg Leu Arg Phe Val Leu Arg Val Phe Gln Met Thr Ala Phe
Ile Thr Gly Ala His Thr Ile Thr Asn Tyr Ser Asp Arg Arg Leu Tyr
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Ile Ser Pro Leu Ser His Phe Phe Met Asn Ser Gly Ser Ser Ala Gln 35 40 45

Ser Val Leu Ser His Ser Tyr Val Ser Gln Ile Phe Phe Lys Asn Val

50 55 60

Ser Lys Tyr Phe 65

<210> 238

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 238

Met Thr Lys Leu Leu Ser Leu Ser His Leu Leu Val Thr Phe Phe Asn 1 5 10 15

Ile Ile Ala Ile Lys Cys Lys Gln His Leu Arg His Ser Lys Cys 20 25 30

Asn Xaa Asp Thr Thr Phe Lys Asn Lys Met Leu Asn 35

<210> 239

<211> 77

<212> PRT

<213> Homo sapiens

<400> 239

Met Gln Leu Cys Val Ile Trp Phe Thr Val Ile Phe Leu Ser Gln Ser 1 5 10 15

Ser Arg Leu Val Lys Glu Lys Ile Ser Asn Thr Ser Gly Glu Lys Gly 20 25 30

Arg Trp Pro Ala Ile Asp Val Val Ala Leu Cys Pro Ser Arg Thr Ala 35 40 45

Gly Ile Ser Phe Pro Arg His Phe Leu Tyr Val Ser Cys Ile Val Gly 50 60

Cys Thr Asn Ile Ile Cys Ser Phe Gly Phe Pro Gly Gln 65 70 75

<210> 240

<211> 52

<212> PRT

<213> Homo sapiens

<400> 240

Met Glu Val Val Leu Pro Lys His Ile Leu Asp Ile Trp Val Ile Val 1 5 10 15

Leu Ile Ile Leu Ala Thr Ile Val Ile Met Thr Ser Leu Leu Cys  $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$ 

Pro Ala Thr Ala Val Ile Ile Tyr Arg Met Arg Thr His Pro Ile Leu 35 40 45

Ser Gly Ala Val 50

<210> 241

<211> 52

<212> PRT

<213> Homo sapiens

<400> 241

Met Tyr Tyr Leu Gly Lys Trp Asp Ile Trp Gln Pro Val Ser Leu Leu 1 5 10 15

Tyr Ile Ile Leu Phe Ala Ala Cys Pro Ser Leu Leu Ile Ser Ile Pro 20 25 30

Ala Lys Ala Ser Gly Glu Gly Trp Arg Cys Gly Asp Ile Gln Leu Thr 35 40 45

Val Val Thr Asp 50

<210> 242

<211> 42

<212> PRT

<213> Homo sapiens

<400> 242

Met Pro Val Ala Phe His Leu Pro Phe Leu Leu Ile Leu Pro Tyr Arg

1 5 10 15

Val Leu Pro Val Gly Gln Val Thr Gln Leu Thr Pro Arg Ala Val Glu 20 25 30

Val Lys Ile His Asn His Gly Arg Leu Pro

<210> 243

<211> 48

<212> PRT

<213> Homo sapiens

<400> 243

Met Ser Trp Pro Leu Cys Thr Leu Leu Phe Ser Trp Asp Cys Ile Leu  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Ala Val Lys Thr Ser Arg Leu Lys Phe Asp Ser Gln Gly Tyr Ile Leu 20 25 30

Gly Thr Phe Lys Val Ser Phe Gln Arg Asp Phe Ile Asn Arg Leu Asp 35 40 45

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<210> 244
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<212> PRT

<213> Homo sapiens

<400> 244

Met Ser Ile Ile Ile Tyr Trp Leu Leu Phe Phe Lys His Leu Leu Trp 1 5 10 15

Val Leu Ile Ile Gly Met Val Lys Ala Leu His Pro His Tyr Leu Asn 20 25 30

Leu Arg Ile Tyr Glu Phe Gly Glu Ile Thr Ala Val Leu Gln Arg Lys 35 40 45

Lys Gln Gly Arg Glu Asn Gly Asn Phe Leu Lys Phe Ser Leu Leu Ser 50 55 60

Leu Asn Arg Ser Arg Ile Pro Thr Gln Ile 65 70

<210> 245

<211> 43

<212> PRT

<213> Homo sapiens

<400> 245

Met Ala Ile His Phe His Ile Ile Gln Trp Leu Leu Cys Tyr Asn 1 5 10 15

Cys His His Ala Gln Trp Gly Leu Trp His Thr Thr Ala Glu Val Ser 20 25 30

Gly Cys Gly Arg Asn His Leu Ala Phe Lys Ala 35 40

<210> 246

<211> 64

<212> PRT

<213> Homo sapiens

<400> 246

Met Tyr Leu Ser Leu Phe Phe Phe Cys Phe Ser Leu Gln Ala Ser Ala 1 5 10 15

Val Glu Glu Arg Ser Ala Glu Ser Ser Arg Glu Gly Pro Val Arg Thr
20 25 30

Asp Asn Trp Gln Arg Cys Phe Gly Asp Ile Pro Gly Thr Pro Thr His 35 40 45

Leu Val Gln Arg Ser Leu Val Leu Thr Cys Phe Gly Arg Val Leu Ser 50 55 60

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<210> 247
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<212> PRT

<213> Homo sapiens

<400> 247

Met Lys Lys Val Cys Trp Val Trp Ala Leu Ala His Leu Val Leu Cys
1 10 15

Glu Arg Trp Leu Thr Ala Gly Cys Leu Leu Tyr Val Gly Val Ile Gln
20 25 30

Pro Cys Lys Gly Ser Pro Ser Ser Val Cys Lys Ala Arg Arg Cys Leu 35 40 45

His Pro Lys Tyr Arg Ile Lys Arg Tyr Gly Tyr Tyr Lys Tyr Ser Val
50 55 60

Arg Leu Ile Ile Cys His His Pro His Ala Leu Lys Ala Glu Leu 65 70 75 80

Thr Asp Asp

<210> 248

<211> 56

<212> PRT

<213> Homo sapiens

<400> 248

Met Arg Ser Tyr Phe Pro Phe Ser Val Cys Pro Phe Pro Phe Cys Ser  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Pro Val Phe Phe Phe Val Phe Thr Asp Val Tyr Leu Cys Phe Phe Phe 20 25 30

Val Phe Ala Val Gly Arg His Leu Ser Asp Pro Phe Pro Ile Leu Phe 35 40 45

Phe Thr His Lys Cys Pro Asp Val 50 55

<210> 249

<211> 66

<212> PRT

<213> Homo sapiens

<400> 249

Met Arg Ala Cys Gly Trp Asp Leu Ser Ile Leu Leu Val Gly Leu Val 1 5 10 15

Met Gly Arg Glu Gly Cys Tyr Ser Arg Leu Pro Pro Thr Glu Tyr Gln
20 25 30

Lys Gln Ala Gly Ser Ser Gly Val Cys Lys Asp Val Arg Pro Arg Asn 35 40 45

Gln Pro Ser Pro Ser Tyr Pro Cys Lys Ser Leu Ser Pro His Ala Pro 55 Leu Leu 65 <210> 250 <211> 45 <212> PRT <213> Homo sapiens <400> 250 Met Tyr Leu Ile Leu Ser Trp Leu Phe Leu Cys Lys Leu Val Lys Cys 10 15 Tyr Phe Glu Ile Leu Leu Phe Ser Thr Ser Pro Gln Leu Leu Gln Trp 25 Thr Val Ile Val Thr Tyr Cys Gly Pro Leu Leu Arg Phe 40 <210> 251 <211> 53 <212> PRT <213> Homo sapiens <400> 251 Met Leu Val Phe Leu Leu Phe Ser Thr Val Thr Val Leu Cys Leu 5 10 15 Lys Val Val Phe Ser Leu Lys Ala Val Ala Tyr Ile Val Lys Asn Glu Gly Leu Cys Leu Lys Phe Ile Ala Leu Gln Arg Val Val Ser Leu Lys 35 Ser Cys Thr Ile Lys 50 <210> 252 <211> 56 <212> PRT <213> Homo sapiens <400> 252 Met Thr Phe Leu Gln Trp Phe Pro Leu Gly Arg Ala Arg Val Val Gly Asp Leu Cys Gly Phe Ser Thr Gln Ile His Pro Gly Val Ser Arg

Ala Gly Met Ala Asp Leu Glu Ser Pro Pro Phe Pro Arg Thr Cys Ser

Val Pro Arg Ala Ala Asn Lys Gly

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<210> 253
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<212> PRT

<213> Homo sapiens

<400> 253

Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys 1 5 10 15

Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg 20 25 30

Val Ser Gln Lys Arg Gly His Ile 35 40

<210> 254

<211> 71

<212> PRT

<213> Homo sapiens

<400> 254

Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser 1 5 10 15

Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His  $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30$ 

Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu 35 40 45

Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu 50 55 60

Ser Val Thr Lys Thr Phe Leu 65 70

<210> 255

<211> 41

<212> PRT

<213> Homo sapiens

<400> 255

Met Phe Val Lys Tyr His Val Ile Met Val Ile Ile Phe Ile Phe Ile 1 5 10 15

Leu Ile Thr Ser Asp Lys His Gly Glu Ile Ile Tyr Ile Lys Tyr Ile 20 25 30

Asp Arg Val Ile Ile Thr Glu Arg Ile 35 40

<210> 256

<211> 160

<212> PRT

Met Gln Arg Val Ser Gly Leu Leu Ser Trp Thr Leu Ser Arg Val Leu 1 5 10 15

Trp Leu Ser Gly Leu Ser Glu Pro Gly Ala Ala Arg Gln Pro Arg Ile 20 25 30

Met Glu Glu Lys Ala Leu Glu Val Tyr Asp Leu Ile Arg Thr Ile Arg 35 40 45

Asp Pro Glu Lys Pro Asn Thr Leu Glu Glu Leu Glu Val Val Ser Glu
50 60

Ser Cys Val Glu Val Gln Glu Ile Asn Glu Glu Glu Tyr Leu Val Ile 65 70 75 80

Ile Arg Phe Thr Pro Thr Val Pro His Cys Ser Leu Ala Thr Leu Ile 85 90 95

Gly Leu Cys Leu Arg Val Lys Leu Gln Arg Cys Leu Pro Phe Lys His 100 105 110

Lys Leu Glu Ile Tyr Ile Ser Glu Gly Thr His Ser Thr Glu Glu Asp 115 120 125

Ile Asn Lys Gln Ile Asn Asp Lys Glu Arg Val Ala Ala Met Glu 130 135 140

Asn Pro Asn Leu Arg Glu Ile Val Glu Gln Cys Val Leu Glu Pro Asp 145 150 155 160

<210> 257

<211> 50

<212> PRT

<213> Homo sapiens

<400> 257

Met Leu Phe Phe Ser Leu Lys Glu Ser Leu Tyr Ile Phe His Thr Ala 1 5 10 15

Ile Leu Leu Val Val Cys Phe Ala Cys Ala Val Val Cys Gln Tyr Val 20 25 30

Ile Val Arg Val Cys Ala Val Val Phe Cys Phe Ser Lys Ser Gln Ser 35 40 45

Leu Ile 50

<210> 258

<211> 278

<212> PRT

Met Leu Ile Phe Gly Ala Ile Phe Gly Cys Leu Asp Pro Val Ala Thr 1 5 10 15

Leu Ala Ala Val Met Thr Glu Lys Ser Pro Phe Thr Thr Pro Ile Gly
20 25 30

Arg Lys Asp Glu Ala Asp Leu Ala Lys Ser Ala Leu Ala Met Ala Asp 35 40 45

Ser Asp His Leu Thr Ile Tyr Asn Ala Tyr Leu Gly Trp Lys Lys Ala 50 55 60

Arg Gln Glu Gly Gly Tyr Arg Ser Glu Ile Thr Tyr Cys Arg Arg Asn 65 70 75 80

Phe Leu Asn Arg Thr Ser Leu Leu Thr Leu Glu Asp Val Lys Gln Glu 85 90 95

Leu Ile Lys Leu Val Lys Ala Ala Gly Phe Ser Ser Ser Thr Thr Ser 100 105 110

Thr Ser Trp Glu Gly Asn Arg Ala Ser Gln Thr Leu Ser Phe Gln Glu
115 120 125

Ile Ala Leu Leu Lys Ala Val Leu Val Ala Gly Leu Tyr Asp Asn Val 130 135 140

Gly Lys Ile Ile Tyr Thr Lys Ser Val Asp Val Thr Glu Lys Leu Ala 145 150 155 160

Cys Ile Val Glu Thr Ala Gln Gly Lys Ala Gln Val His Pro Ser Ser 165 170 175

Val Asn Arg Asp Leu Gln Thr His Gly Trp Leu Leu Tyr Gln Glu Lys 180 185 190

Ile Arg Tyr Ala Arg Val Tyr Leu Arg Glu Thr Thr Leu Ile Thr Pro 195 200 205

Phe Pro Val Leu Leu Phe Gly Gly Asp Ile Glu Val Gln His Arg Glu 210 215 220

Arg Leu Leu Ser Ile Asp Gly Trp Ile Tyr Phe Gln Ala Pro Val Lys 225 230 235 240

Ile Ala Val Ile Phe Lys Gln Leu Arg Val Leu Ile Asp Ser Val Leu 245 250 255

Arg Lys Leu Glu Asn Pro Lys Met Ser Leu Glu Met Thr Arg Phe 260 265 270

Cys Arg Ser Leu Arg Asn 275

<210> 259

<211> 68

<212> PRT

Met Lys Val Leu Ser Trp Ile His Phe Ile Leu Ile Ser Leu His Phe 1 5 10 15

Thr Ser Ser Leu Asp Pro Ser Ser Arg Gly Leu Gly Thr Phe Thr Asp 20 25 30

Ala Leu Pro Asp Ser Arg Ala Lys Val Trp Glu Gly Glu Met Glu Glu 35 40 45

Cys Pro Pro Val Cys Val Val Leu Cys Ala Thr Ala Thr Asp Ala Glu
50 60

Gly Phe Ser Gly 65

<210> 260

<211> 121

<212> PRT

<213> Homo sapiens

<400> 260

Met Ile Met Ala Gln Lys Ile Gly Gly Leu Thr Trp Trp Ala Ile Met 1 5 10 15

Phe Ile Ile Leu Phe Glu Ile Thr Gly Thr Ser Ser Phe Leu Arg
20 25 30

Ile Asn Ala Leu Pro His Phe Ser Met Asn Arg Cys Gly Glu Ala Tyr 35 40 45

Phe Pro Phe Ser Tyr Leu Tyr Thr Ser Leu Gln Lys Gln Phe Leu Met 50 55 60

Lys Val Ser Gly Ile Val Lys Asn Leu Arg Gly Asn Asp Asp Trp Arg 65 70 75 80

Cys Phe Gly Val Phe Phe Cys Ile His Phe Leu Met Arg Lys Val Leu 85 90 95

Asn Val Val Gln Val Arg Pro Asn Tyr Tyr Leu Thr Ile Ile Gly Arg
100 105 110

Phe Tyr Val Ser Val Lys Val Phe Lys 115 120

<210> 261

<211> 58

<212> PRT

<213> Homo sapiens

<400> 261

Met Gly Lys Ile Cys Lys Asn Trp Val Ser Phe Leu Asp Asn Val Leu 1 5 10 15

Leu Leu Ile Leu Phe Leu Tyr Gly Leu Cys Leu Gly Trp Leu Cys Ile 20 25 30

Tyr His Gln Ser Tyr Ser Thr Ala Cys Ile Cys Val Val Thr Asp Ala 35 40 45

Glu Ile Gln Gln Lys Ser Leu His Ser Ile 50 55

<210> 262

<211> 67

<212> PRT

<213> Homo sapiens

<400> 262

Met Leu Val Leu Leu Trp Leu Gly Trp Ile Ser Ser Lys Ser Met Leu 1 5 10 15

Ala Ala Tyr Phe Val Ala Pro Lys Tyr Pro Leu Lys Leu Ala Leu Val 20 25 30

Ser Glu Pro Glu Ser Ser Leu Ile Leu Lys Phe Leu Ser Leu Lys 35 40 45

Asp Phe Leu Cys Cys Tyr Thr Thr Lys Leu Ser Val Asn Pro Pro Leu 50 55 60

Leu Asn Asp 65

<210> 263

<211> 45

<212> PRT

<213> Homo sapiens

<400> 263

Met Val Ser Phe His Phe Gln Cys Thr Ser Tyr Phe Val Arg Leu Phe  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Phe Gln Leu Gln Leu Phe Val Gly Leu Val Ile Val Leu Ala Leu Leu 20 25 30

Ile Ser His Ser Leu Thr Tyr Ser Phe His Lys His Leu 35 40 45

<210> 264

<211> 70

<212> PRT

<213> Homo sapiens

<400> 264

Met Thr His Trp Ser Gly Cys Ala Ala Leu Tyr Leu Ile Phe Leu Ser 1 5 10 15

Leu Lys Leu Ala Phe Gln Ala Gly Ala Gly Arg Gly Ala Gln Val Gly
20 25 30

Ser Val Leu Pro Pro Ser Gly Gly Ala Val Val Val Asp Gln Tyr Cys 35 40 45

Cys Arg Leu Ser Ala Gln Thr Tyr Phe Ser Leu Pro Ala Leu Gln Lys
50 60

Cys Ile Gly Ile Cys Arg 65 70

<210> 265

<211> 40

<212> PRT

<213> Homo sapiens

<400> 265

Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys 1 5 10 15

Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg 20 25 30

Val Ser Gln Lys Arg Gly His Ile 35 40

<210> 266

<211> 71

<212> PRT

<213> Homo sapiens

<400> 266

Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser 1 5 10 15

Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His 20 25 30

Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu 35 40 45

Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu 50 55 60

Ser Val Thr Lys Thr Phe Leu 65 70

<210> 267

<211> 110

<212> PRT

<213> Homo sapiens

<400> 267

Phe Tyr Ile Ala Asp His Ser Phe Thr Ala Arg Pro Thr Leu Arg Met
1 5 10 15

Phe Arg Ile Ser Ala Val Val Ala Thr Asp Lys Met Thr Phe Thr Ser 20 25 30

Gly Gly Thr Leu Phe Gly Asp Gly Cys Ala Ser Ser Val Ala Gly Glu 35 40 45

```
Val Met Asn Cys Gln Thr Val Leu Cys Ile Leu Trp Thr Pro Phe Val
50 60
```

Phe Cys Pro Ser Ile Ala Val Ile Ile Ile Pro Cys Val Phe Thr Ser 65 70 75 80

Lys Ala Leu Glu Ala Ile Trp Lys Trp Cys Arg Val Glu Arg Arg Pro 85 90 95

His Ile Ile Glu Val Asp Val Leu Gly Lys Cys Pro Ala Phe 100 105 110

<210> 268

<211> 25

<212> PRT

<213> Homo sapiens

<400> 268

Arg Pro Thr Leu Arg Met Phe Arg Ile Ser Ala Val Val Ala Thr Asp 1 10 15

Lys Met Thr Phe Thr Ser Gly Gly Thr 20 25

<210> 269

<211> 28

<212> PRT

<213> Homo sapiens

<400> 269

Pro Ser Ile Ala Val Ile Ile Ile Pro Cys Val Phe Thr Ser Lys Ala 1 10 15

Leu Glu Ala Ile Trp Lys Trp Cys Arg Val Glu Arg
20 25

<210> 270

<211> 20

<212> PRT

<213> Homo sapiens

<400> 270

Thr Ser Val Ser Phe His His Arg Tyr Lys Ser Ser Asp Arg Pro Ala 1 5 10 15

His Lys Val Ser

20

<210> 271

<211> 1187

<212> DNA

<213> Homo sapiens

<400> 271

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agatataaga	gttcggaccg	cccagcacac	aaggtcagca	tgctgctcct	ctgtcacgct	120
ctcgctatag	ctgttgtcca	gatcgttatc	ttctcagaaa	gctgggcatt	tgccaagaac	180
atcaacttct	ataatgtgag	gcctcctctc	gaccctacac	catttccaaa	tagcttcaag	240
tgctttactt	gtgaaaacgc	aggggataat	tataactgca	atcgatgggc	agaagacaaa	300
tggtgtccac	aaaatacaca	gtactgtttg	acagttcatc	acttcaccag	ccacggaaga	360
agcacatcca	tcaccaaaaa	gtgtgcctcc	agaagtgaat	gtcattttgt	cggttgccac	420
cacagccgag	attctgaaca	tacggagtgt	aggtcttgct	gtgaaggaat	gatctgcaat	480
gtagaattac	ccaccaatca	cactaatgca	gtgtttgccg	taatgcacgc	tcagagaaca	540
tctggcagca	gtgccccac	actctaccta	ccagtgcttg	cctgggtctt	tgtgcttcca	600
ttgctgtgat	gccaccattc	ctaggagagg	cagagaccag	cctctaaagc	acaagccaaa	660
aactgtgtga	acggtgaact	ttggagtgaa	gatcaatctt	gcacttggtg	aagagtgcac	720
attggacctc	aaggcgaaag	ccagtggttt	gcttggataa	aatgttcccg	catgaggcca	780
caggactgag	gatgggaatt	tggcagggcc	tgagaagatg	gtctgacttc	caggcttcct	840
ggtcaaagag	agctacgttt	gggcagttct	gcagagagga	tcctggcaac	tagtcccacc	900
tgactaggcc	tttagctgaa	aaggatttct	tgacctcctt	gactgcctca	gaggctgcca	960
ggtcaaaccc	tcttgtttat	gtgattagct	cagagcatct	ctatgaaatc	taacccttcc	1020
cctcatgaga	aagcagtttt	ccccaccaac	agcatagtca	atgagaaagg	caactgtacg	1080
aagaaaactt	ccagtggaac	taatatgaaa	tctatttgca	aattatgggg	ggaaataaag	1140
cttttaaatt	atacaatgta	aaaaaaaaa	aaaaaaaaa	aaaaaaa		1187

<210> 272

<211> 169

<212> PRT

<213> Homo sapiens

<400> 272

Met Leu Leu Cys His Ala Leu Ala Ile Ala Val Val Gln Ile Val 1 5 10 15

Ile Phe Ser Glu Ser Trp Ala Phe Ala Lys Asn Ile Asn Phe Tyr Asn 20 25 30

Val Arg Pro Pro Leu Asp Pro Thr Pro Phe Pro Asn Ser Phe Lys Cys
35 40 45

Phe Thr Cys Glu Asn Ala Gly Asp Asn Tyr Asn Cys Asn Arg Trp Ala 50 60

Glu Asp Lys Trp Cys Pro Gln Asn Thr Gln Tyr Cys Leu Thr Val His

His Phe Thr Ser His Gly Arg Ser Thr Ser Ile Thr Lys Lys Cys Ala 85 90 95

Ser Arg Ser Glu Cys His Phe Val Gly Cys His His Ser Arg Asp Ser 100 105 110

Glu His Thr Glu Cys Arg Ser Cys Cys Glu Gly Met Ile Cys Asn Val 115 120 125

Glu Leu Pro Thr Asn His Thr Asn Ala Val Phe Ala Val Met His Ala 130 135 140

Gln Arg Thr Ser Gly Ser Ser Ala Pro Thr Leu Tyr Leu Pro Val Leu 145 150 155 160

Ala Trp Val Phe Val Leu Pro Leu Leu 165

<210> 273

<211> 21

<212> PRT

<213> Homo sapiens

<400> 273

Ile Ala Val Val Gln Ile Val Ile Phe Ser Glu Ser Trp Ala Phe Ala 1 5 . 10 15

Lys Asn Ile Asn Phe

<210> 274

<211> 21

<212> PRT

<213> Homo sapiens

<400> 274

Phe Tyr Asn Val Arg Pro Pro Leu Asp Pro Thr Pro Phe Pro Asn Ser 1 5 10 15

Phe Lys Cys Phe Thr 20

<210> 275

<211> 21

<212> PRT

<213> Homo sapiens

<400> 275

Thr Cys Glu Asn Ala Gly Asp Asn Tyr Asn Cys Asn Arg Trp Ala Glu 1 1 5 15

Asp Lys Trp Cys Pro

20

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<210> 276
<211> 21
<212> PRT
<213> Homo sapiens
<400> 276
Pro Gln Asn Thr Gln Tyr Cys Leu Thr Val His His Phe Thr Ser His
                                      10
Gly Arg Ser Thr Ser
             20
<210> 277
<211> 21
<212> PRT
<213> Homo sapiens
<400> 277
Ser Ile Thr Lys Lys Cys Ala Ser Arg Ser Glu Cys His Phe Val Gly
                                      10
Cys His His Ser Arg
             20
<210> 278
<211> 21
<212> PRT
<213> Homo sapiens
<400> 278
Arg Asp Ser Glu His Thr Glu Cys Arg Ser Cys Cys Glu Gly Met Ile
                                    10
Cys Asn Val Glu Leu
             20
<210> 279
<211> 100
<212> PRT
<213> Homo sapiens
<400> 279
Gly Arg Ala Phe Ala Leu Arg Thr Met Leu Pro Val Val Ser Ser Val
Phe Ala Leu Pro Phe Tyr Leu Asn Phe Arg Ile Tyr Tyr Phe Lys Ile
             20
                                                      30
Leu Ser Tyr Leu Asn Val Ile His Phe Ser Ser Thr Asn Phe Glu Tyr
```

His Ser Phe Val Leu Leu Asp Leu His Ser Leu Arg Ser Trp Gly Ala

Lys Leu Gly Leu Arg Phe Gly Gly Phe Arg Ser Arg Val Leu Ser Gly

50

65

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Gly Ser Ala Ser Asn Ala Asp Trp Arg Phe Cys Ser Asn Ala Phe Ala
                                      90
Ser Ser Ala His
            100
<210> 280
<211> 21
<212> PRT
<213> Homo sapiens
<400> 280
Leu Pro Val Val Ser Ser Val Phe Ala Leu Pro Phe Tyr Leu Asn Phe
Arg Ile Tyr Tyr Phe
             20
<210> 281
<211> 21
<212> PRT
<213> Homo sapiens
<400> 281
Ser Phe Val Leu Leu Asp Leu His Ser Leu Arg Ser Trp Gly Ala Lys
                                                           15
                                      10
Leu Gly Leu Arg Phe
             20
<210> 282
<211> 20
<212> PRT
<213> Homo sapiens
<400> 282
Phe Gly Gly Phe Arg Ser Arg Val Leu Ser Gly Gly Ser Ala Ser Asn
Ala Asp Trp Arg
             20
<210> 283
<211> 21
<212> PRT
<213> Homo sapiens
 <400> 283
 Phe Lys Ile Leu Ser Tyr Leu Asn Val Ile His Phe Ser Ser Thr Asn
                                      10
                   5
 Phe Glu Tyr His Ser
              20
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<210> 284

<212> PRT

<213> Homo sapiens

<400> 284

Gly Ala Gly Lys Arg Pro Gln Val Leu Thr Phe Pro Glu Tyr Ile Thr 1 5 10 15

Ser Leu Ser Asp Ser Gly Thr Lys Arg Met Ala Ala Gly Val Arg Met 20 25 30

Glu Cys Gln Ser Lys Gly Arg Cys Pro Ser Ser Cys Pro Leu Cys His 35 40 45

Val Thr Ser Ser Pro Asp Thr Pro Ala Glu Pro Val Leu Leu Glu Val
50 60

Thr Lys Ala Ala Pro Ile Tyr Glu Leu Val Thr Asn Asn Gln Thr Gln 65 70 75 80

Arg Leu Leu Gln Glu Ala Thr Met Ser Ser Leu Trp Cys Ser Gly Thr 85 90 95

Gly Asp Val Ile Glu Asp Trp Cys Arg Cys Asp Ser Thr Ala Phe Gly
100 105 110

Ala Asp Gly Leu Pro Thr Cys Ala Pro Leu Pro Gln Pro Val Tyr Gly
115 120 125

Ser Leu Ser Leu Phe Gln His Tyr Ser Gly Asn Arg 130 135 140

<210> 285

<211> 20

<212> PRT

<213> Homo sapiens

<400> 285

Thr Phe Pro Glu Tyr Ile Thr Ser Leu Ser Asp Ser Gly Thr Lys Arg
1 5 10 15

Met Ala Ala Gly

<210> 286

<211> 21

<212> PRT

<213> Homo sapiens

<400> 286

Gly Val Arg Met Glu Cys Gln Ser Lys Gly Arg Cys Pro Ser Ser Cys
1 5 10 15

Pro Leu Cys His Val

<210> 287

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<211> 21
<212> PRT
<213> Homo sapiens
<400> 287
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<400> 287 Val Thr Ser Ser Pro Asp Thr Pro Ala Glu Pro Val Leu Leu Glu Val

Thr Lys Ala Ala Pro

<210> 288

<211> 20 <212> PRT

<213> Homo sapiens

<400> 288

Pro Ile Tyr Glu Leu Val Thr Asn Asn Gln Thr Gln Arg Leu Gln 1 5 10 15

Glu Ala Thr Met

<210> 289 <211> 84

<212> PRT

<213> Homo sapiens

<400> 289

Cys Leu Ser Ile Ala Leu Ser Asn Ala Leu His Ser Leu Asp Gly Ala 1 5 10 15

Thr Ser Arg Ala Asp Phe Val Ala Leu Leu Asp Gln Phe Gly Asn His 20 25 30

Tyr Ile Gln Glu Ala Ile Tyr Gly Phe Glu Glu Ser Cys Ser Ile Trp 35 40 45

Tyr Pro Asn Lys Gln Val Gln Arg Arg Leu Trp Leu Glu Tyr Glu Asp 50 55 60

Ile Ser Lys Gly Asn Ser Pro Ser Asp Glu Ser Glu Glu Arg Glu Arg
65 70 75 80

Asp Pro Lys Cys

<210> 290

<211> 21

<212> PRT

<213> Homo sapiens

<400> 290

Met Ser Ser Leu Trp Cys Ser Gly Thr Gly Asp Val Ile Glu Asp Trp
1 5 10 15

Cys Arg Cys Asp Ser

20

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<210> 291
<211> 50
<212> PRT
<213> Homo sapiens
<400> 291
Asn Ser Ala Arg Ala Glu Ala Glu Glu Leu Ser Pro Leu Leu Ser Asn
Glu Leu His Arg Gln Arg Ser Pro Gly Val Ser Phe Gly Leu Ser Val
                                  25
             20
Phe Asn Leu Met Asn Ala Ile Met Gly Ser Gly Ile Leu Gly Leu Ala
                              40
Tyr Val
     50
<210> 292
<211> 21
<212> PRT
<213> Homo sapiens
<400> 292
Leu Ser Pro Leu Leu Ser Asn Glu Leu His Arg Gln Arg Ser Pro Gly
Val Ser Phe Gly Leu
             20
<210> 293
<211> 21
<212> PRT
<213> Homo sapiens
<400> 293
Leu Ser Val Phe Asn Leu Met Asn Ala Ile Met Gly Ser Gly Ile Leu
                                      10
Gly Leu Ala Tyr Val
             20
<210> 294
<211> 28
<212> PRT
<213> Homo sapiens
<400> 294
His Leu Gly Arg Gly Phe Val Pro Gly Ile Leu Gly His Trp Leu Gly
Phe Glu Glu Arg Ser Gln Tyr Leu Pro Gly Cys Arg
```

25

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<210> 295
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<212> PRT

<213> Homo sapiens

<400> 295

Arg His Asn Asp Phe Asn Lys Leu Ser Tyr Thr Glu Cys Asn Asn Met

1 5 10 15

Asn Lys Arg Met Ala Lys Pro Glu Lys Lys Lys Gly Ser Val Lys Ser 20 25 30

Ser Leu Gly Ile Phe Leu Gly Pro Asn Cys His Leu Ile Ser Ser Leu 35 40 45

Phe Leu Phe Ser Val Ser Leu Tyr Pro Phe Ala Thr Gln Phe Pro Phe 50 55 60

His Tyr Val Leu Ile Phe Ile Ile Gln Ala Phe Gly Leu Cys Leu Pro 65 70 75 80

Leu Thr Glu Arg Gln Glu Ala Lys Ser Gly Leu Gly Gly Leu Cys Pro 85 90 95

Asp Tyr Thr Trp Pro Cys Pro Cys Leu Leu Val Ser Cys Leu Ser Leu 100 105 110

Leu Arg Leu 115

<210> 296

<211> 114

<212> PRT

<213> Homo sapiens

<400> 296

Cys Glu Val Phe Ser Trp His Phe Pro Trp Ser Lys Leu Ser Pro His 1 5 10 15

Leu Phe Leu Val Ser Phe Leu Cys Ile Pro Leu Ser Leu Cys His Thr 20 25 30

Val Ser Phe Ser Leu Cys Ser Asn Ile Tyr Asn Pro Gly Leu Arg Thr 35 40 45

Met Leu Ala Pro His Arg Glu Thr Gly Gly Gln Val Trp Ala Gly Trp 50 55 60

Ala Leu Ser Arg Leu His Val Ala Leu Pro Met Ser Leu Gly Val Leu 65 70 75 80

Ser Leu Pro Ala Pro Thr Val Thr Val Val Arg Met Glu Gly Gly Asp
85 90 95

Trp Lys Val Cys Glu Gln Leu Gly Gln Cys Thr Tyr Ser His Arg Met 100 105 110

Thr Lys

```
<210> 297
<211> 23
<212> PRT
<213> Homo sapiens
<400> 297
Lys Arg Met Ala Lys Pro Glu Lys Lys Gly Ser Val Lys Ser Ser
Leu Gly Ile Phe Leu Gly Pro
             20
<210> 298
<211> 31
<212> PRT
<213> Homo sapiens
<400> 298
Tyr Asn Pro Gly Leu Arg Thr Met Leu Ala Pro His Arg Glu Thr Gly
                  5
Gly Gln Val Trp Ala Gly Trp Ala Leu Ser Arg Leu His Val Ala
                                 25
<210> 299
<211> 9
<212> PRT
<213> Homo sapiens
<400> 299
Ser Cys Lys Thr Glu Asn Leu Leu Glu
<210> 300
<211> 50
<212> PRT
<213> Homo sapiens
<400> 300
Glu Cys Gly Ser Trp Ala Gly Phe His Thr Ser Ser Phe Pro Arg Pro
Ser Ala Leu Ala Leu Ala Trp Arg Trp Gly Ser Ile Cys His
Leu His Thr Ala Gly Phe Ile Phe Gly Ala Ala Pro Arg Gly Asn Lys
Cys Arg
     50
<210> 301
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<210> 303

<211> 25

<212> PRT

<213> Homo sapiens

<400> 303

Pro Asp Thr Leu Asp Lys Ser Pro Leu Ala Pro Gly Ser Ser Leu Val 1 5 10 15

Asp Pro Gln Ile Ser Leu Trp Val Leu 20 25

<210> 304

<211> 251

<212> PRT

<213> Homo sapiens

<400> 304

Met Ser Pro Tyr Ala Ser Gln Gly Phe Pro Phe Leu Pro Pro Tyr Pro 1 5 10 15

Pro Gln Glu Ala Asn Arg Ser Ile Thr Ser Leu Ser Val Ala Asp Thr 20 25 30

Val Ser Ser Ser Thr Thr Ser His Thr Thr Ala Lys Pro Ala Ala Pro 35 40 45

Ser Phe Gly Val Leu Ser Asn Leu Pro Leu Pro Ile Pro Thr Val Asp 50 55 60

Ala Ser Ile Pro Thr Ser Gln Asn Gly Phe Gly Tyr Lys Met Pro Asp 65 70 75 80

Val Pro Asp Ala Phe Pro Glu Leu Ser Glu Leu Ser Val Ser Gln Leu 85 90 95

Thr Asp Met Asn Glu Glu Glu Glu Val Leu Leu Glu Gln Phe Leu Thr
100 105 110

Leu Pro Gln Leu Lys Gln Ile Ile Thr Asp Lys Asp Asp Leu Val Lys
115 120 125

Ser Ile Glu Glu Leu Ala Arg Lys Asn Leu Leu Glu Pro Ser Leu 130 135 140

Glu Ala Lys Arg Gln Thr Val Leu Asp Lys Tyr Glu Leu Leu Thr Gln 145 150 155 160

Met Lys Ser Thr Phe Glu Lys Lys Met Gln Arg Gln His Glu Leu Ser 165 170 175

Glu Ser Cys Ser Ala Ser Ala Leu Gln Ala Arg Leu Lys Val Ala Ala 180 185 190

His Glu Ala Glu Glu Glu Ser Asp Asn Ile Ala Glu Asp Phe Leu Glu 195 200 205

Gly Lys Met Glu Ile Asp Asp Phe Leu Ser Ser Phe Met Glu Lys Arg 210 215 220

Thr Ile Cys His Cys Arg Arg Ala Lys Glu Glu Lys Leu Gln Gln Ala 225 230 235 240

Ile Ala Met His Ser Gln Phe His Ala Pro Leu 245 250

<210> 305

<211> 23

<212> PRT

<213> Homo sapiens

<400> 305

Leu Pro Pro Tyr Pro Pro Gln Glu Ala Asn Arg Ser Ile Thr Ser Leu 1 5 10 15

Ser Val Ala Asp Thr Val Ser 20

<210> 306

<211> 27

<212> PRT

<213> Homo sapiens

<400> 306

Thr Ala Lys Pro Ala Ala Pro Ser Phe Gly Val Leu Ser Asn Leu Pro 1 5 10 15

Leu Pro Ile Pro Thr Val Asp Ala Ser Ile Pro 20 25

<210> 307

<211> 25

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<212> PRT
<213> Homo sapiens
<400> 307
Pro Asp Val Pro Asp Ala Phe Pro Glu Leu Ser Glu Leu Ser Val Ser
Gln Leu Thr Asp Met Asn Glu Gln Glu
             20
<210> 308
<211> 29
<212> PRT
<213> Homo sapiens
<400> 308
Gln Phe Leu Thr Leu Pro Gln Leu Lys Gln Ile Ile Thr Asp Lys Asp
Asp Leu Val Lys Ser Ile Glu Glu Leu Ala Arg Lys Asn
<210> 309
<211> 25
<212> PRT
<213> Homo sapiens
<400> 309
Arg Gln Thr Val Leu Asp Lys Tyr Glu Leu Leu Thr Gln Met Lys Ser
                                      10
Thr Phe Glu Lys Lys Met Gln Arg Gln
             20
<210> 310
<211> 28
<212> PRT
<213> Homo sapiens
<400> 310
Ala Ser Ala Leu Gln Ala Arg Leu Lys Val Ala Ala His Glu Ala Glu
Glu Glu Ser Asp Asn Ile Ala Glu Asp Phe Leu Glu
<210> 311
<211> 27
<212> PRT
<213> Homo sapiens
<400> 311
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Leu Gln Gln Ala Ile Ala Met His Ser Gln Phe

Met Glu Lys Arg Thr Ile Cys His Cys Arg Arg Ala Lys Glu Glu Lys

20 25

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<210> 312
<211> 19
<212> PRT
<213> Homo sapiens
<400> 312
Leu Leu Gln Gln His Phe Leu Ile Tyr Thr Val Thr Gln Val Gly
                                     10
Cys Leu Leu
<210> 313
<211> 16
<212> PRT
<213> Homo sapiens
<400> 313
Glu Phe Gly Thr Arg Lys Ser Lys Ser Lys Ile Asn Ile Lys Glu Glu
<210> 314
<211> 20
<212> PRT
<213> Homo sapiens
<400> 314
Gly Thr Ser Ser Lys Val Val Thr Gln Lys Val His Leu Ser Ser Val
                                      10
Glu Phe Pro Phe
             20
<210> 315
<211> 69
<212> PRT
<213> Homo sapiens
<400> 315
Thr Arg Pro Val Phe Leu Ser Met Thr Pro Leu Lys Gly Ile Lys Ser
                  5
                                      10
                                                          15
Val Ile Leu Pro Gln Val Phe Leu Cys Ala Tyr Met Ala Ala Phe Asn
Ser Ile Asn Gly Asn Arg Ser Tyr Thr Cys Lys Pro Leu Glu Arg Ser
```

40

55

Leu Leu Met Ala Gly Ala Val Ala Ser Ser Thr Phe Leu Gly Val Ile

```
Pro Gln Phe Val Gln
 65
<210> 316
<211> 21
<212> PRT
<213> Homo sapiens
<400> 316
Pro Leu Lys Gly Ile Lys Ser Val Ile Leu Pro Gln Val Phe Leu Cys
Ala Tyr Met Ala Ala
             20
<210> 317
<211> 21
<212> PRT
<213> Homo sapiens
<400> 317
Ala Phe Asn Ser Ile Asn Gly Asn Arg Ser Tyr Thr Cys Lys Pro Leu
                                      10
Glu Arg Ser Leu Leu
             20
<210> 318
<211> 19
<212> PRT
<213> Homo sapiens
<400> 318
Pro Glu Ser Pro Val Tyr Pro Arg Arg Arg Thr Phe Ser Pro Asn Pro
 1
                  5
Ser Pro Ile
<210> 319
<211> 11
<212> PRT
<213> Homo sapiens
<400> 319
Asn Val Ser Ala Asn Leu Asn Phe His Val His
 1
                  5
<210> 320
<211> 129
<212> PRT
<213> Homo sapiens
<400> 320
Met Ser Asp Phe Glu Lys Val Asp Ile Ser Val His Gln His Ile His
```

1 5 10 15

Val Gly Pro Leu Leu Met Thr Thr Glu Ser Trp Gly Pro Ser Cys 20 25 30

Ala Pro Ser Pro Ala Leu Leu Ser Gly His Thr Ala Ala Ser Phe Thr 35 40 45

His Thr Leu Gly Gly Val Leu Gly Cys Pro Pro Tyr His Lys Phe Tyr 50 55 60

Ser Ser Ala His Thr Ser Asp His Arg Lys Glu Thr Asn Lys Val Glu 65 70 75 80

Glu Gly Arg Trp Val Asp Val Thr Arg Ser Leu Gly Asn Phe Asn Phe 85 90 95

Arg Arg Lys Phe Phe Cys Val Ser Glu Leu Leu Ile Cys Gly Ile Phe 100 105 110

Leu Asp Ser Ser Trp Lys Leu Gln Ile Asn Ser Asn Asp Cys Lys Val 115 120 125

Leu

<210> 321

<211> 30

<212> PRT

<213> Homo sapiens

<400> 321

Val Gly Pro Leu Leu Leu Met Thr Thr Glu Ser Trp Gly Pro Ser Cys

1 5 10 15

Ala Pro Ser Pro Ala Leu Leu Ser Gly His Thr Ala Ala Ser 20 25 30

<210> 322

<211> 27

<212> PRT

<213> Homo sapiens

<400> 322

Glu Thr Asn Lys Val Glu Glu Gly Arg Trp Val Asp Val Thr Arg Ser 1 5 10 15

Leu Gly Asn Phe Asn Phe Arg Arg Lys Phe Phe 20 25

<210> 323

<211> 10

<212> PRT

<213> Homo sapiens

<400> 323

Gln Ser Pro Arg Val Arg Ser Leu Gly Asp

1 5 10

<210> 324

<211> 50

<212> PRT

<213> Homo sapiens

<400> 324

Gly Gly Pro Met Lys Asp Cys Glu Tyr Ser Gln Ile Ser Thr His Ser 1 5 10 15

Ser Ser Pro Met Glu Ser Pro His Lys Lys Lys Lys Ile Ala Arg 20 25 30

Arg Lys Trp Glu Val Phe Pro Gly Arg Asn Lys Phe Phe Cys Asn Gly 35 40 45

Arg Ile 50

<210> 325

<211> 21

<212> PRT

<213> Homo sapiens

<400> 325

Ser Gln Ile Ser Thr His Ser Ser Ser Pro Met Glu Ser Pro His Lys

1 10 15

Lys Lys Ile Ala 20

<210> 326

<211> 21

<212> PRT

<213> Homo sapiens

<400> 326

Ala Ala Arg Arg Lys Trp Glu Val Phe Pro Gly Arg Asn Lys Phe Phe 1 5 10 15

Cys Asn Gly Arg Ile 20

<210> 327

<211> 27

<212> PRT

<213> Homo sapiens

<400> 327

Pro Pro Phe Pro His Pro Glu Thr Gly Gln Leu Cys Leu Val Asp Ser 1 5 10 15

Ala Pro Arg Pro Leu Gln Pro Tyr Leu Arg Leu 20 25

```
<210> 328
<211> 76
<212> PRT
<213> Homo sapiens
<400> 328
<210> 329
<211> 14
<212> PRT
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His Pro Met Cys Ala Lys Val Ala Asp Pro Glu Leu Ser Ser Cys Pro

His Cys Gly Leu Thr Ala Gln Pro Gly Pro Glu Ser Gly Asn Ile Ser

His Ser Leu Arg Glu Gly Ser Pro Arg Thr Leu Phe Val Asp Ser Thr

Ser Gln Ala Ser Val Pro Ala Ala Glu Cys Pro Gly His Arg Glu Gly

Thr Pro Phe Ser Gly Ala Ser Thr Ser Gln Ala Phe

<213> Homo sapiens

<400> 329 Thr Pro Leu Leu Ser Pro Cys Leu Gln Pro Leu Pro Gly Val 10

<210> 330 <211> 11 <212> PRT <213> Homo sapiens

<400> 330 Thr Arg Arg Ser Cys Ser Ser Gln Val Ser Ser 5

<210> 331 <211> 140 <212> PRT <213> Homo sapiens

<400> 331 Gly Arg Gly Asp Lys Pro Arg Gln Asp Arg Pro Ala Ser Leu Arg Leu

Lys Gly Pro Pro Ser Cys Gln Ala Pro Ala Ser His Ser Ser Thr Leu 20 30

Ser Ser His Cys Pro Cys Ser Leu Phe Ala Cys Gly Ser Val Trp Pro

Gly Ser Leu Gly Ser Gly Ile Phe Ala Arg Leu Ser Gln Leu Leu Pro

Ser Pro Ala Ser Trp Gly Trp Asp Phe Leu Thr Leu Arg Gln Ala Gln 65 70 75 80

Gln Met Leu Gly Pro Ser Leu Cys Pro Gly His Ser Thr Ser Ala His 85 90 95

Gln His Tyr Gly Ala Tyr Val Leu Pro Arg Asp Leu Cys Ser Phe Leu
100 105 110

Leu Thr Ser Thr Val Gln Gly Thr Ala Pro Leu Lys Asn Ser Arg Val 115 120 125

Thr Cys Leu Ile Gly Ser Gln Gln Val Pro Leu Cys 130 135 140

<210> 332

<211> 146

<212> PRT

<213> Homo sapiens

<400> 332

Ala Glu Val Thr Ser Pro Ala Lys Thr Asp Leu Gln Val Phe Val Ser 1 5 10 15

Arg Asp Leu Pro His Ala Arg Pro Leu Pro Leu Thr Ala Ala Pro Phe 20 25 30

Pro Leu Ile Val Pro Val Pro Phe Leu Pro Val Asp Leu Phe Gly Gln 35 40 45

Gly Pro Trp Gly Gln Glu Tyr Leu Gln Asp Ser Ala Ser Ser Phe Pro 50 55 60

Ala Gln Pro Leu Gly Ala Gly Thr Phe Ser Pro Cys Gly Arg His Asn 65 70 75 80

Arg Cys Trp Asp Pro Val Ser Ala Gln Val Thr Ala Gln Val His Ile  $85 \hspace{1cm} 90 \hspace{1cm} 95$ 

Ser Thr Met Gly Pro Met Ser Cys Pro Glu Thr Ser Ala Pro Ser Cys 100 105 110

Ser His Pro Gln Phe Arg Ala Arg Pro Ser Arg Thr Pro Glu Ser 115 120 125

Pro Val Ser Ser Ala Pro Ser Lys Cys Leu Phe Val Tyr Asp Val Pro 130 135 140

Leu Leu 145

<210> 333

<211> 30

<212> PRT

<213> Homo sapiens

<400> 333

Ser Leu Arg Leu Lys Gly Pro Pro Ser Cys Gln Ala Pro Ala Ser His Ser Ser Thr Leu Ser Ser His Cys Pro Cys Ser Leu Phe Ala 25 <210> 334 <211> 30 <212> PRT <213> Homo sapiens <400> 334 Gln Gln Met Leu Gly Pro Ser Leu Cys Pro Gly His Ser Thr Ser Ala His Gln His Tyr Gly Ala Tyr Val Leu Pro Arg Asp Leu Cys <210> 335 <211> 31 <212> PRT <213> Homo sapiens <400> 335 Asp Leu Gln Val Phe Val Ser Arg Asp Leu Pro His Ala Arg Pro Leu 10 Pro Leu Thr Ala Ala Pro Phe Pro Leu Ile Val Pro Val Pro Phe 25 <210> 336 <211> 39 <212> PRT <213> Homo sapiens <400> 336 Ala Gln Val His Ile Ser Thr Met Gly Pro Met Ser Cys Pro Glu Thr 10 Ser Ala Pro Ser Cys Ser His Pro Gln Phe Arg Ala Arg Pro Ser 30 Arg Thr Pro Glu Ser Pro Val 35 <210> 337 <211> 17 <212> PRT <213> Homo sapiens <400> 337 Gln Ala Pro Pro Arg Gln Thr Cys Lys Ser Ser Ser Gln Gly Thr Ser

Leu

- <210> 338
- <211> 314
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> misc\_feature
- <222> (27)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> misc\_feature
- <222> (111)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 338
- Gln His Trp Cys Gly Cys Trp Arg Glu His Xaa Val Lys Pro Gln Gln 20 25 30
- Val Asp Leu His Ser Ala Arg Leu Trp Ala Ala Pro Ala Ala Val Gly
  35 40 45
- Pro Ala His Ala Gly Gly Ser Pro Gly Met Pro Pro Gly Gly Thr Ala 50 55 60
- Pro His Ala Arg Arg His Ser Leu Pro Ser Pro Thr Ala Gln Ser His 65 70 75 80
- Leu Trp His Val His Gly Leu Arg Gln Arg Gly Pro Lys Ala Val Pro 85 90 95
- Leu Asp Leu Ala Gln Leu Val Thr Thr Thr Thr Pro Leu Phe Xaa Leu 100 105 110
- Ala Leu Ser Ala Leu Leu Gly Arg Arg His His Pro Leu Gln Leu 115 120 125
- Ala Ala Met Gly Pro Leu Cys Leu Gly Ala Ala Cys Ser Leu Ala Gly
  130 135 140
- Glu Phe Arg Thr Pro Pro Thr Gly Cys Gly Phe Leu Leu Ala Ala Thr 145 150 155 160
- Cys Leu Arg Gly Leu Lys Ser Val Gln Gln Ser Ala Leu Leu Gln Glu 165 170 175
- Glu Arg Leu Asp Ala Val Thr Leu Leu Tyr Ala Thr Ser Leu Pro Ser 180 185 190
- Phe Cys Leu Leu Ala Gly Ala Ala Leu Val Leu Glu Ala Gly Val Ala 195 200 205
- Pro Pro Pro Thr Ala Gly Asp Ser Arg Leu Trp Ala Cys Ile Leu Leu 210 215 220

```
Ser Cys Leu Leu Ser Val Leu Tyr Asn Leu Ala Ser Phe Ser Leu Leu
225
                    230
                                         235
Ala Leu Thr Ser Ala Leu Thr Val His Val Leu Gly Asn Leu Thr Val
                245
                                    250
Val Gly Asn Leu Ile Leu Ser Arg Leu Leu Phe Gly Ser Arg Leu Ser
Ala Leu Ser Tyr Val Gly Ile Ala Leu Thr Leu Ser Gly Met Phe Leu
                            280
Tyr His Asn Cys Glu Phe Val Ala Ser Trp Ala Ala Arg Arg Gly Leu
Trp Arg Arg Asp Gln Pro Ser Lys Gly Leu
<210> 339
<211> 66
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 339
Gly Gln Pro Ser Gly Pro Pro Ala Ala Trp Pro Gly Pro Ser Gly His
                                     10
                                                          15
Gly Ser Thr Gly Val Ala Ala Gly Gly Ser Thr Xaa Ser Ser Leu Asn
Lys Trp Ile Phe Thr Val His Gly Phe Gly Arg Pro Leu Leu Ser
         35
                             40
Ala Leu His Met Leu Val Ala Ala Leu Ala Cys His Arg Gly Ala Arg
                         55
Arg Pro
 65
<210> 340
<211> 21
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (19)
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<223> Xaa equals any of the naturally occurring L-amino acids

Trp Pro Gly Pro Ser Gly His Gly Ser Thr Gly Val Ala Ala Gly Gly

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20
<210> 341
<211> 26
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 341
Glu Trp Pro Trp Gln His Trp Cys Gly Cys Trp Arg Glu His Xaa Val
                                      10
Lys Pro Gln Gln Val Asp Leu His Ser Ala
             20
<210> 342
<211> 28
<212> PRT
<213> Homo sapiens
<400> 342
Gln Gln Ser Ala Leu Leu Gln Glu Glu Arg Leu Asp Ala Val Thr Leu
                  5
Leu Tyr Ala Thr Ser Leu Pro Ser Phe Cys Leu Leu
             20
<210> 343
<211> 27
<212> PRT
<213> Homo sapiens
<400> 343
Ala Cys Ile Leu Leu Ser Cys Leu Leu Ser Val Leu Tyr Asn Leu Ala
Ser Phe Ser Leu Leu Ala Leu Thr Ser Ala Leu
             20
<210> 344
<211> 21
<212> PRT
<213> Homo sapiens
<400> 344
Ser Leu Asn Lys Trp Ile Phe Thr Val His Gly Phe Gly Arg Pro Leu
Leu Leu Ser Ala Leu
```

Ser Thr Xaa Ser Ser

20

```
<210> 345
```

<211> 28

<212> PRT

<213> Homo sapiens

<400> 345

Glu Phe Gly Thr Ser Arg Ala Arg Leu Gln Leu Lys Lys Asn Lys Lys 1 5 10 15

Lys Glu Arg Asn Ile Pro Gly Thr Leu Leu Ser Ile 20 25

<210> 346

<211> 17

<212> PRT

<213> Homo sapiens

<400> 346

Lys Ser Thr Leu Ser Ala Ala Val Val Ala Thr Ile Leu Arg Thr Leu 1 5 10 15

Ala

<210> 347

<211> 100

<212> PRT

<213> Homo sapiens

<400> 347

Gly Asp His Ser Glu Gln Cys Leu Ile Lys Glu Met Gly Ala Arg Glu  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Arg Arg Phe Cys Lys Ala Arg Gly Tyr Arg Asp Thr Gly Arg Glu Ala 20 25 30

Gln Ala Lys Ala Gly Gly Arg Arg Gly Ser Gln Trp Asn Glu Ser Gln 35 40 45

Cys Ser Ser Gln Arg Pro Arg Pro Ala Lys Glu Val Arg Lys Thr Arg 50 55 60

Pro Arg Ala Gly Val Gly Arg Gly Pro Ala Leu Leu Gln Leu Ser Leu 65 70 75 80

Leu Gln Gln Val Val Leu Tyr Val Arg Pro Ser Leu Arg Leu Val Trp
85 90 95

Leu Lys Ala Ser 100

<210> 348

<211> 84

<212> PRT

<213> Homo sapiens

<400> 348

Met Glu Arg Gly Glu Tyr Gly Gly Trp Gly Thr Tyr Gly Ser Leu Asp 1 5 10 15

Leu Gly Ser Gln Leu Cys Thr Val Arg Ser Ser Gly Pro Cys Gly Ser 20 25 30

Leu His Trp Gly Gln His Arg Ser Pro Ile Ser Gly Pro Asp Pro Asn 35 40 45

Pro Ser Ser Ser Arg Gly Gln Gln Ser Ile Gly Ser Lys Val Gly Ser 50 60

Pro Ser Arg Ser Gln Trp Arg Ser Trp Lys Glu Val Gly Arg Asp Pro 65 70 75 80

Glu Lys Gly Glu

<210> 349

<211> 23

<212> PRT

<213> Homo sapiens

<400> 349

Gln Ala Lys Ala Gly Gly Arg Arg Gly Ser Gln Trp Asn Glu Ser Gln 1 5 10 15

Cys Ser Ser Gln Arg Pro Arg 20

<210> 350

<211> 26

<212> PRT

<213> Homo sapiens

<400> 350

Val Gly Arg Gly Pro Ala Leu Leu Gln Leu Ser Leu Leu Gln Gln Val
1 5 10 15

Val Leu Tyr Val Arg Pro Ser Leu Arg Leu
20 25

<210> 351

<211> 22

<212> PRT

<213> Homo sapiens

<400> 351

Tyr Gly Ser Leu Asp Leu Gly Ser Gln Leu Cys Thr Val Arg Ser Ser 1 5 10 15

Gly Pro Cys Gly Ser Leu

20

<210> 352

```
<211> 20
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<212> PRT

<213> Homo sapiens

<400> 352

Lys Val Gly Ser Pro Ser Arg Ser Gln Trp Arg Ser Trp Lys Glu Val 1 5 10 15

Gly Arg Asp Pro 20

<210> 353

<211> 33

<212> PRT

<213> Homo sapiens

<400> 353

Ala Arg Gly Phe Phe Phe Tyr Ile Leu Ile Thr Arg Leu Thr Pro Ile 1 5 10 15

Lys Tyr Asp Val Asn Leu Ile Leu Thr Ala Val Thr Gly Ser Val Gly 20 25 30

Gly

<210> 354

<211> 214

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 354

Met Pro Gln Ser Leu Ser Ser Leu Ala Ser Ser Ser Ser Phe Gln
1 5 10 15

Arg Xaa Lys Pro Cys Phe Gly Lys Lys Asn Asp Gly Glu Asn Gln Glu 20 25 30

His Ser Leu Gly Thr Glu Pro Ile Ile Thr Trp Lys Asp Phe Gln Lys 35 40 45

Thr Met Pro Trp Glu Ile Val Ile Leu Val Gly Gly Tyr Ala Leu 50 55 60

Ala Ser Gly Ser Lys Ser Ser Gly Leu Ser Thr Trp Ile Gly Asn Gln 65 70 75 80

Met Leu Ser Leu Ser Ser Leu Pro Pro Trp Ala Val Thr Leu Leu Ala 85 90 95

Cys Ile Leu Val Ser Ile Val Thr Glu Phe Val Ser Asn Pro Ala Thr 100 105 110

```
The Thr Ile Phe Leu Pro Ile Leu Cys Ser Leu Ser Glu Thr Leu His 115 120 120 125

The Asn Pro Leu Tyr Thr Leu Ile Pro Val Thr Met Cys Ile Ser Phe 130 135 140
```

Ala Val Met Leu Pro Val Gly Asn Pro Pro Asn Ala Ile Val Phe Ser 145 150 155 160

Tyr Gly His Cys Gln Ile Lys Asp Met Val Lys Ala Gly Leu Gly Val 165 170 175

Asn Val Ile Gly Leu Val Ile Val Met Val Ala Ile Asn Thr Trp Gly
180 185 190

Val Ser Leu Phe His Leu Asp Thr Tyr Pro Ala Trp Ala Arg Val Ser 195 200 205

Asn Ile Thr Asp Gln Ala 210

<210> 355

<211> 23

<212> PRT

<213> Homo sapiens

<400> 355

Asn Asp Gly Glu Asn Gln Glu His Ser Leu Gly Thr Glu Pro Ile Ile 1 5 10 15

Thr Trp Lys Asp Phe Gln Lys 20

<210> 356

<211> 24

<212> PRT

<213> Homo sapiens

<400> 356

Ile Gly Asn Gln Met Leu Ser Leu Ser Ser Leu Pro Pro Trp Ala Val 1 1 5 15

Thr Leu Leu Ala Cys Ile Leu Val 20

<210> 357

<211> 27

<212> PRT

<213> Homo sapiens

<400> 357

Ala Thr Ile Thr Ile Phe Leu Pro Ile Leu Cys Ser Leu Ser Glu Thr
1 5 10 15

Leu His Ile Asn Pro Leu Tyr Thr Leu Ile Pro 20 25

```
<210> 358
<211> 26
<212> PRT
<213> Homo sapiens
<400> 358
Leu Pro Val Gly Asn Pro Pro Asn Ala Ile Val Phe Ser Tyr Gly His
Cys Gln Ile Lys Asp Met Val Lys Ala Gly
             20
<210> 359
<211> 29
<212> PRT
<213> Homo sapiens
<400> 359
Leu Val Ile Val Met Val Ala Ile Asn Thr Trp Gly Val Ser Leu Phe
 1
                  5
                                     10
His Leu Asp Thr Tyr Pro Ala Trp Ala Arg Val Ser Asn
             20
                                 25
<210> 360
<211> 83
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (68)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (69)
<223> Xaa equals any of the naturally occurring L-amino acids
Leu Glu His Phe Asn Asn Gln Tyr Pro Ala Ala Glu Val Val Asn Phe
Gly Thr Trp Phe Leu Phe Ser Phe Pro Ile Ser Leu Ile Met Leu Val
             20
Val Ser Trp Phe Trp Met His Trp Leu Phe Leu Gly Cys Asn Phe Lys
Glu Thr Cys Ser Leu Ser Lys Lys Lys Thr Lys Arg Glu Gln Leu
```

Tyr Pro Glu

65

Ser Glu Lys Xaa Xaa Gln Glu Glu Tyr Glu Lys Leu Gly Asp Ile Ser

```
<210> 361
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<211> 36

<212> PRT

<213> Homo sapiens

<400> 361

Gln Glu Leu Trp Pro Leu Tyr Met Asp Trp Glu Pro Asp Val Val Pro 1 5 10 15

Glu Gln Pro Pro Thr Val Gly Cys His Pro Ala Gly Met His Pro Arg 20 25 30

Val His Cys His 35

<210> 362

<211> 37

<212> PRT

<213> Homo sapiens

<400> 362

Ser Thr His Ala Ser Gly Gly Gly Arg Gly Arg Gly Pro Arg Gly 1 5 10 15

Glu Glu Thr Gln Pro Arg Gly Trp His Ala Arg Pro Gly Pro 20 25 30

Arg Ser Thr Gly Ala 35

<210> 363

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 363

Glu Thr Cys Pro Ser Asn Gly Ile Glu Leu Arg Gln Ala Pro Thr Ser

1 5 10 15

Leu Tyr Ile Leu Leu His Ile Gln Pro Thr Pro Thr His Pro Met
20 25 30

Leu Gly Arg Ser Tyr Val Leu Pro Ala Phe Ser Xaa Asn Xaa Glu His
35 40 45

Gly Gly Leu Pro Asn Gln Ile Pro Lys Gly Asp Arg Asn Gly Asn Ile

50 55 60

Arg His Ser Arg Ile Thr Phe Pro Cys Ser Ser Ser Thr Leu Gln Pro 65 70 75 80

Glu Ser His Leu Gly Phe Ile Arg Ser Lys Leu His Gly Leu Val Arg 85 90 95

Pro Gly Lys Asp Leu Arg Gly Arg Arg Ser Leu Gln Leu Ser Lys His
100 105 110

Ser Leu Ser Thr Cys Tyr Met Leu Arg Trp Glu Thr Tyr Lys Gln Val 115 120 125

Ser Tyr Thr Ala Val

<210> 364

<211> 106

<212> PRT

<213> Homo sapiens

<400> 364

Gln Arg His Gln Glu Asn Asp Lys Arg Asn Val His Arg Phe Leu His 1 5 10 15

Thr Cys Val His Met Pro Met Cys Thr His Thr His Thr Gln Ala Val 20 25 30

Leu Ser Thr Trp Glu Gly Gln Phe Ser Asn Val Ala Ser Phe Thr Ser 35 40 45

Leu Lys Arg Ile Pro Leu Ser Ile Ile Tyr Ile His Ser Ser His Ser 50 55 60

Pro Arg Arg Phe Val Lys Val Cys Gln Leu Arg Gln Glu Lys Ala Leu 65 70 75 80

Glu Leu Thr Glu Val Tyr Val Ser Ala Ser Leu Lys Leu Gln Leu Tyr 85 90 95

His Leu His Cys His Phe His Thr Ala Val 100 105

<210> 365

<211> 24

<212> PRT

<213> Homo sapiens

<400> 365

Arg Gln Ala Pro Thr Ser Leu Tyr Ile Leu Leu His Ile Gln Pro 1 5 10 15

Thr Pro Thr His Pro Met Leu Gly 20

<210> 366

```
<211> 25
<212> PRT
<213> Homo sapiens
<400> 366
Ser His Leu Gly Phe Ile Arg Ser Lys Leu His Gly Leu Val Arg Pro
Gly Lys Asp Leu Arg Gly Arg Arg Ser
             20
<210> 367
<211> 22
<212> PRT
<213> Homo sapiens
<400> 367
Arg Asn Val His Arg Phe Leu His Thr Cys Val His Met Pro Met Cys
                  5
Thr His Thr His Thr Gln
             20
<210> 368
<211> 25
<212> PRT
<213> Homo sapiens
<400> 368
Gln Leu Arg Gln Glu Lys Ala Leu Glu Leu Thr Glu Val Tyr Val Ser
Ala Ser Leu Lys Leu Gln Leu Tyr His
             20
<210> 369
<211> 31
<212> PRT
<213> Homo sapiens
<400> 369
Pro Arg Val Arg Gly Arg Lys Glu Pro Gly Cys Leu Gly Pro Gly Arg
Ala Gly Gly Asp Ser Gln Lys Glu Ile Gly Ser Trp Gln Gln Met
                                  25
<210> 370
<211> 296
<212> PRT
<213> Homo sapiens
<400> 370
Leu Ser Lys Gly Asn Arg Ile Met Ala Ala Asp Asp Asp Asn Gly Asp
                                      10
```

Gly Thr Ser Leu Phe Asp Val Phe Ser Ala Ser Pro Leu Lys Asn Asn 20 25 30

Asp Glu Gly Ser Leu Asp Ile Tyr Ala Gly Leu Asp Ser Ala Val Ser 35 40 45

Asp Ser Ala Ser Lys Ser Cys Val Pro Ser Arg Asn Cys Leu Asp Leu 50 55 60

Tyr Glu Glu Ile Leu Thr Glu Glu Gly Thr Ala Lys Glu Ala Thr Tyr 65 70 75 80

Asn Asp Leu Gln Val Glu Tyr Gly Lys Cys Gln Leu Gln Met Lys Glu 85 90 95

Leu Met Lys Lys Phe Lys Glu Ile Gln Thr Gln Asn Phe Ser Leu Ile 100 105 110

Asn Glu Asn Gln Ser Leu Lys Lys Asn Ile Ser Ala Leu Ile Lys Thr 115 120 125

Ala Arg Val Glu Ile Asn Arg Lys Asp Glu Glu Ile Ser Asn Leu His 130 135 140

Gln Gly His Leu Ile Gln Leu Lys Gln Lys Ile Leu Asn Leu Asp Leu 165 170 175

His Ile Trp Met Ile Val Gln Arg Leu Ile Thr Arg Ala Lys Ser Asp 180 185 190

Val Ser Lys Asp Val His His Ser Thr Ser Leu Pro Asn Leu Glu Lys 195 200 205

Glu Gly Lys Pro His Ser Asp Lys Arg Ser Thr Ser His Leu Pro Thr 210 215 220

Ser Val Glu Lys His Cys Thr Asn Gly Val Trp Ser Arg Ser His Tyr 225 230 235 240

Gln Val Gly Glu Gly Ser Ser Asn Glu Asp Ser Arg Arg Gly Arg Lys  $245 \hspace{1.5cm} 250 \hspace{1.5cm} 255$ 

Asp Ile Arg His Ser Gln Phe Asn Arg Gly Thr Glu Arg Val Arg Lys 260 265 270

Asp Leu Ser Thr Gly Cys Gly Asp Gly Glu Pro Arg Ile Leu Glu Ala 275 280 285

Ser Gln Arg Leu Gln Gly Thr Ser 290 295

<sup>&</sup>lt;210> 371

<sup>&</sup>lt;211> 27

<sup>&</sup>lt;212> PRT

<sup>&</sup>lt;213> Homo sapiens

```
<400> 371
Asn Arg Ile Met Ala Ala Asp Asp Asp Asn Gly Asp Gly Thr Ser Leu
Phe Asp Val Phe Ser Ala Ser Pro Leu Lys Asn
             20
<210> 372
<211> 23
<212> PRT
<213> Homo sapiens
<400> 372
Cys Leu Asp Leu Tyr Glu Glu Ile Leu Thr Glu Glu Gly Thr Ala Lys
                 5
Glu Ala Thr Tyr Asn Asp Leu
             20
<210> 373
<211> 26
<212> PRT
<213> Homo sapiens
<400> 373
Asp Glu Glu Ile Ser Asn Leu His Gln Lys Ile Val Leu Ser Phe His
Ile Phe Glu Ile Ile Lys Leu Gln Gly
<210> 374
<211> 22
<212> PRT
<213> Homo sapiens
<400> 374
Glu Lys Glu Gly Lys Pro His Ser Asp Lys Arg Ser Thr Ser His Leu
Pro Thr Ser Val Glu Lys
             20
<210> 375
<211> 26
<212> PRT
<213> Homo sapiens
<400> 375
Thr Glu Arg Val Arg Lys Asp Leu Ser Thr Gly Cys Gly Asp Gly Glu
```

Pro Arg Ile Leu Glu Ala Ser Gln Arg Leu

20

```
<210> 376
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<211> 115

<212> PRT

<213> Homo sapiens

<400> 376

Lys Ser Tyr Phe Arg Thr Met Gly Gly Thr Lys Arg Gly Ile Lys Lys 1 5 10 15

Leu Val Asn Val Cys Leu Lys His Pro Lys Asn Thr Ser Leu Ser Gln 20 25 30

Gln Leu Val Phe Ala Lys Ile Asn Lys Ile Leu Ile Ser Lys Thr Thr  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Lys Ser Thr Asn Leu Lys Gly Leu Lys Cys Leu Pro Pro Leu Ser Val 50 60

Ser Ile His Pro Thr Phe Ile Tyr Tyr Lys His Asn Thr Thr Leu Arg 65 70 75 80

Ile Val Phe Gly Thr Tyr Phe Asp Phe Phe Pro Tyr Arg Lys Asn Lys 85 90 95

Asp Gln Ala Phe Glu Gly Glu Asp Trp Glu Ser Ser Leu Asn Val Ser 100 105 110

Asp Ala Trp 115

<210> 377

<211> 22

<212> PRT

<213> Homo sapiens

<400> 377

Thr Lys Arg Gly Ile Lys Lys Leu Val Asn Val Cys Leu Lys His Pro
1 5 10 15

Lys Asn Thr Ser Leu Ser 20

<210> 378

<211> 26

<212> PRT

<213> Homo sapiens

<400> 378

Ser Ile His Pro Thr Phe Ile Tyr Tyr Lys His Asn Thr Thr Leu Arg

1 10 15

Ile Val Phe Gly Thr Tyr Phe Asp Phe Phe 20 25

<210> 379

<211> 56

<212> PRT

<213> Homo sapiens <400> 379 Thr Arg Pro Arg Arg His Leu Gly Gly Gln Pro Gly Ala Leu His Gly Gln Ala Ala Cys Val His Val Pro Cys Leu Val Pro Leu Cys Pro Pro 25 20 Pro Ala Asn Leu Thr Gly Ser Pro His Asn Ser Ala Leu Gln Lys Gln Pro Leu Gly Gly Arg Gly Arg Lys 50 <210> 380 <211> 21 <212> PRT <213> Homo sapiens <400> 380 Gln Pro Gly Ala Leu His Gly Gln Ala Ala Cys Val His Val Pro Cys Leu Val Pro Leu Cys 20 <210> 381 <211> 21 <212> PRT <213> Homo sapiens <400> 381 Cys Pro Pro Pro Ala Asn Leu Thr Gly Ser Pro His Asn Ser Ala Leu Gln Lys Gln Pro Leu 20 <210> 382 <211> 28 <212> PRT <213> Homo sapiens <400> 382 Pro Asp Ala Gly Thr Ala Ser Ser Gln Arg Glu Pro Arg Arg Cys Arg Ala Gly Glu Ala Pro Ser Leu Pro Ala Cys Ala Pro

<210> 383 <211> 40 <212> PRT

<213> Homo sapiens

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<400> 383
Phe Leu Ile His Leu Glu Val Ile Trp Glu Leu Gly Cys Phe Ser Pro
Lys Ala Lys Ala Ile Ala Ser Thr Pro Val Ile Lys Gly Ser Leu Gln
Ile Tyr Phe Pro Cys Arg Ser Glu
<210> 384
<211> 32
<212> PRT
<213> Homo sapiens
<400> 384
His Glu Ser Lys Glu Lys Cys Pro Pro Gly Pro Leu His Gln Arg Cys
                                      10
Val Phe Asn Ser Ser Gly Ala Gly Arg Val Met Ala Thr Arg Lys Arg
             20
                                  25
                                                      30
<210> 385
<211> 27
<212> PRT
<213> Homo sapiens
<400> 385
Lys Arg Thr Leu Leu Gln Arg Leu Asp Trp Ser Tyr Trp Val Asp Ser
Trp Glu His Gln His Ser Leu His Asn Gly Trp
             20
<210> 386
<211> 12
<212> PRT
<213> Homo sapiens
<400> 386
Gly Pro Arg Gly Val Gly Asp Gly Gly Val Ser Ser
                  5
```

<210> 387
<211> 70
<212> PRT
<213> Homo sapiens
<220>
<221> misc\_feature
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> misc_feature
<222> (44)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 387
Gln Arg Pro His Pro Gln Pro Trp Xaa Pro Met Thr Leu Met Gly Thr
Gly Ile Pro Val Phe Ala His Lys Met Leu Pro Phe Asp Pro Pro Cys
His Leu Ser Cys Thr His Ile Asn Pro Lys Pro Xaa Xaa Pro Gln Gly
Asp Glu Gln Lys Ser Gln Gly Thr Glu Glu Trp Cys Asp Arg Glu Gly
                                              60
Lys Lys Arg Arg Ser Ile
 65
<210> 388
<211> 21
<212> PRT
<213> Homo sapiens
<400> 388
Pro Met Thr Leu Met Gly Thr Gly Ile Pro Val Phe Ala His Lys Met
                                      10
Leu Pro Phe Asp Pro
             20
<210> 389
<211> 21
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 389
Pro Pro Cys His Leu Ser Cys Thr His Ile Asn Pro Lys Pro Xaa Xaa
```

Pro Gln Gly Asp Glu

20

```
<210> 390
<211> 21
<212> PRT
<213> Homo sapiens
<400> 390
Glu Gln Lys Ser Gln Gly Thr Glu Glu Trp Cys Asp Arg Glu Gly Lys
                                      10
Lys Arg Arg Ser Ile
             2.0
<210> 391
<211> 70
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (65)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 391
Asp Glu Trp Gly Ala Gly Arg Arg Met Glu Trp Glu Asp Asn Leu Pro
Leu Glu Phe Ser Cys Pro Val Thr Lys Leu Leu Ser Val Pro Ser Trp
Thr Pro Leu Asp Ala Gln Met Leu Leu Leu Phe Phe Pro Ser Leu Ser
His His Ser Ser Val Pro Trp Leu Phe Cys Ser Ser Pro Cys Gly Xaa
Xaa Gly Leu Gly Phe Ile
 65
<210> 392
<211> 21
<212> PRT
<213> Homo sapiens
<400> 392
Glu Trp Glu Asp Asn Leu Pro Leu Glu Phe Ser Cys Pro Val Thr Lys
Leu Leu Ser Val Pro
```

```
<210> 393
<211> 21
<212> PRT
<213> Homo sapiens
<400> 393
Pro Ser Trp Thr Pro Leu Asp Ala Gln Met Leu Leu Leu Phe Phe Pro
Ser Leu Ser His His
             20
<210> 394
<211> 21
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids
<221> misc_feature
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 394
His Ser Ser Val Pro Trp Leu Phe Cys Ser Ser Pro Cys Gly Xaa Xaa
                                      10
Gly Leu Gly Phe Ile
<210> 395
<211> 14
<212> PRT
<213> Homo sapiens
<400> 395
Ile Thr Glu Val Arg Lys Asp Asp Leu Lys Val Val Arg Ile
<210> 396
<211> 15
<212> PRT
<213> Homo sapiens
<400> 396
Gln Gly Leu Ser His Ile Phe Trp Met Asn Glu Gln Thr Leu Lys
                  5
                                                           15
                                      10
<210> 397
<211> 32
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<212> PRT

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Ala Asp Leu Ile Val Leu Trp His His Pro Leu Trp Pro Gln His
Leu Ala Leu Pro Ser Ser Gly Ala Ser His Asp His Val Glu Leu Thr.
                                 25
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Val Tyr Pro Lys Thr Val Ala Ala Ser Trp Leu Leu Glu Leu Ser Arg
35 40 45

Pro Pro Ile Phe Cys Leu Phe Thr Xaa Pro Ala Leu Thr Xaa His Gly

50 55 60

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Leu Asp Arg Val Ala Ala Leu Val Glu Cys Thr Ile Trp Xaa Xaa Xaa 65 70 75 80
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Gly Met Trp Tyr Arg Arg Tyr Ser Cys Cys Gln Phe Arg Asp Arg 85 90 95

Ser Ile Arg Asp Val Phe Pro Glu Ala Val Met Leu Gln Gln His Leu 100 105 110

Arg His Leu Ala Val Ala Thr Tyr Arg Cys Arg Arg Arg Ser Pro Cys 115 120 125

Lys Ala Pro Thr Val Glu Glu Ala Glu Gly Gly Lys Pro Arg Ala Val 130 135 140

Pro Ser Gly Thr Gly Phe Gln Lys His Gly Gln Glu Pro Gly Gly Ser 145 150 155 160

Thr Ser Pro His Trp Phe Trp Gly His Leu Gln Leu Leu Val Leu Ser 165 170 175

Val Asn Asn Arg Gln Leu Phe Val Gln Gly Arg Ala Gly Tyr Leu Glu 180 185 190

Met Thr Gly Leu Pro Cys Pro Lys Leu Leu Thr Leu Leu Arg Gly
195 200 205

Leu Thr Pro Gly Val Gly His Gly Leu Cys Ala Tyr Arg Gly Cys 210 215 220

Leu Ala Trp Arg Leu Asp Xaa Ala Ser 225 230

<210> 399

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<400> 399

Ile Leu Trp Arg Gln Ala Pro Glu Ala Pro His Cys Ser Gln Asp Ser

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Val Ser Ser Pro Arg Leu Gln Glu Asp Leu Ala His Val Thr Gln

20 25 30

Val Thr Arg His Pro His Phe Arg Ser Leu Pro Ser Ala Trp Cys Ser 35 40 45

His Ser Ser Leu Leu Pro Val Ser Leu Pro Arg His Ala Leu Ala Thr 50 55 60

Lys Ser Pro Asn Met Xaa Xaa Ser Ser Pro Ile Leu His Leu Ile Gln 65 70 75 80

Phe Thr Gly Gln Ile Ser Ser Pro Leu Gly Gly Xaa Val Gln Pro Pro 85 90 95

Gly Gln Thr Ala Ser Pro Ile Cys Thr Gln Pro Met Ser His Pro Arg 100 105 110

Arg Gln Ala Ser Gln Gln Cys Glu Gln Gln Leu Trp Thr Gly Gln Thr
115 120 125

Ser His Leu Gln Ile Pro Cys Pro Ala Leu Asn Lys Glu Leu Pro Val 130 135 140

Val Asp Thr Gln Asp Lys Glu Leu Gln Met Ser Pro Glu Pro Met Trp 145 150 155 160

Gly Cys Gly Pro Ser Arg Leu Leu Pro Met Leu Leu Glu Ser Cys Ala 165 170 175

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<211> 34

<212> PRT

<213> Homo sapiens

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Met Leu Gln Gln His Leu Arg His Leu Ala Val Ala Thr Tyr Arg Cys
1 5 10 15

Arg Arg Arg Ser Pro Cys Lys Ala Pro Thr Val Glu Glu Ala Glu Gly 20 25 30

Gly Lys

<210> 401

<211> 29

<212> PRT

<213> Homo sapiens

<400> 401

Val Thr Gln Val Thr Arg His Pro His Phe Arg Ser Leu Pro Ser Ala 1 5 10 15

Trp Cys Ser His Ser Ser Leu Leu Pro Val Ser Leu Pro 20 25

<210> 402

<211> 28

<212> PRT

<213> Homo sapiens

<400> 402

Gly Gln Thr Ala Ser Pro Ile Cys Thr Gln Pro Met Ser His Pro Arg
1 5 10 15

Arg Gln Ala Ser Gln Gln Cys Glu Gln Gln Leu Trp 20 25

<210> 403

<211> 79

<212> PRT

<213> Homo sapiens

<400> 403

Phe Ile Thr Leu Arg Leu Gly Pro Lys Asn Met Ala Gly Val Leu Trp
1 5 10 15

Arg His Ser Asn Leu Gln Thr Pro His Tyr Ile Ser Trp Cys Pro Leu 20 25 30

Leu Asn Tyr Arg Glu Thr Gly Asn Cys Leu Leu His Val Ser Gly Phe 35 40 45

Leu Asn Ser Arg Leu Leu Ala Asn Cys Ser Gly Glu Ala Ser Gly Lys
50 55 60

Val Ile Gln Thr Leu Leu Trp Pro Gly Glu Ile Ser Ala Val Ala 65 70 75

<210> 404

<211> 82

<212> PRT

<213> Homo sapiens

<400> 404

Lys Ile Arg Thr Phe Leu Phe Ser Gly His Arg Leu Phe Ser Thr Gln
1 5 10 15

Gly Gln Ser Leu Thr Val Lys Ala His Thr Ala Phe Met Leu Ile Val 20 25 30

Lys Asn Leu Arg Tyr Phe Ile Ala Phe Lys Phe Leu Met Gly Ile Ser 35 40 45

Asp Ser Ser Glu Ile Gly Leu Val Met Gln Pro Leu Gln Lys Pro His 50 55 60

Thr Val Ile Leu Ile Arg Gly Ile Glu Phe Leu Ser Pro Gly Gly Val 65 70 75 80

Leu Pro

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<211> 26
<212> PRT
<213> Homo sapiens
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<211> 29
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Met Ala Gly Val Leu Trp Arg His Ser Asn Leu Gln Thr Pro His Tyr

Ile Ser Trp Cys Pro Leu Leu Asn Tyr Arg 20

<213> Homo sapiens

Tyr Phe Ile Ala Phe Lys Phe Leu Met Gly Ile Ser Asp Ser Ser Glu

Ile Gly Leu Val Met Gln Pro Leu Gln Lys Pro His Thr 25

<210> 407

<211> 8

<212> PRT

<213> Homo sapiens

<400> 407

Pro Phe Gly Leu Leu Val Leu Pro 5

<210> 408

<211> 152

<212> PRT

<213> Homo sapiens

<400> 408

Gly Phe Ser Arg Asp Thr Ser Val Leu Ser His Phe Ala Phe Asn Ser

Ala Ser Pro Pro Lys Ser Tyr Ile Arg Gly Lys Leu Gly Leu Glu Glu

Tyr Ala Val Phe Tyr Pro Pro Asn Gly Val Ile Pro Phe His Gly Phe 35

Ser Met Tyr Val Ala Pro Leu Cys Phe Leu Tyr His Glu Pro Ser Lys 55

Leu Tyr Gln Ile Phe Arg Glu Met Tyr Val Arg Phe Phe Phe Arg Leu 75

His Ser Ile Ser Ser His Pro Ser Gly Ile Val Ser Leu Cys Leu Leu

90 95

Phe Glu Thr Leu Leu Gln Thr Tyr Leu Pro Gln Leu Phe Tyr His Leu 100 105 110

Arg Glu Ile Gly Ala Gln Pro Leu Arg Ile Ser Phe Lys Trp Met Val

Arg Ala Phe Ser Gly Tyr Leu Ala Thr Asp Gln Leu Leu Leu Trp 130 135 140

Asp Arg Ile Leu Gly Tyr Asn Ser 145 150

<210> 409

<211> 39

<212> PRT

<213> Homo sapiens

<400> 409

Leu Cys Gln Arg Gly Trp Ala Gly Gln Pro Gly Ile Leu Thr Asp Gly
1 5 10 15

His Pro Leu Pro Gly Gln Ala Ala Ser Arg Ser His Gln Gly Pro Val 20 25 30

Gly Pro Gly Phe Ser Ala Asn

<210> 410

<211> 21

<212> PRT

<213> Homo sapiens

<400> 410

Gln Pro Gly Ile Leu Thr Asp Gly His Pro Leu Pro Gly Gln Ala Ala 1 5 10 15

Ser Arg Ser His Gln 20

<210> 411

<211> 6

<212> PRT

<213> Homo sapiens

<400> 411

Leu Leu Arg Pro Ile Leu 1 5

<210> 412

<211> 53

<212> PRT

<213> Homo sapiens

<400> 412

Ala Arg Ala Asp Arg Ala Arg Gly Ala Ala Ala Gly Arg Ser Gly Arg

1 10 15

Ala Ala Ala Pro Trp Thr Pro Val Ser Ser Leu Ser Ser Ser Leu 20 25 30

Thr Glu Trp Pro Pro Pro Lys Cys Cys Gln Pro Arg Lys Pro Pro Ala 35 40 45

Leu Thr Met Ser Ile 50

<210> 413

<211> 21

<212> PRT

<213> Homo sapiens

<400> 413

Ala Ala Ala Gly Arg Ser Gly Arg Ala Ala Ala Ala Pro Trp Thr Pro 1 5 10 15

Val Ser Ser Leu Ser 20

<210> 414

<211> 21

<212> PRT

<213> Homo sapiens

<400> 414

Ser Ser Ser Leu Thr Glu Trp Pro Pro Pro Lys Cys Cys Gln Pro Arg

1 5 10 15

Lys Pro Pro Ala Leu 20

<210> 415

<211> 137

<212> PRT

<213> Homo sapiens

<400> 415

Glu Tyr Phe Leu Glu Phe Val Phe Ser Leu Ile Trp Ile Leu Ser His 1 5 10 15

Cys Ser Ile Leu Leu Ser Ser Ala Val Cys Asp Pro Gly Asn Ile Arg 20 25 30

Val Thr Glu Ala Pro Lys His Pro Ile Ser Glu Glu Leu Glu Thr Pro 35 40 45

Ile Lys Asp Ser His Leu Ile Pro Thr Pro Gln Ala Pro Ser Ile Ala 50 55 60

Phe Pro Leu Ala Asn Pro Pro Val Ala Pro His Pro Arg Glu Lys Ile 65 70 75 80

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Ile Thr Ile Glu Glu Thr His Glu Glu Leu Lys Lys Gln Tyr Ile Phe
                 85
Gln Leu Ser Ser Leu Asn Pro Gln Glu Arg Ile Asp Tyr Cys His Leu
                                 105
Ile Glu Lys Leu Gly Thr Ser Ile Leu Leu Lys Ser Lys Met Ser His
                                                 125
                            120
        115
Ile Ile Thr Ile Phe Gly Ser Gln Met
                        135
    130
<210> 416
<211> 21
<212> PRT
<213> Homo sapiens
<400> 416
Leu Ile Trp Ile Leu Ser His Cys Ser Ile Leu Leu Ser Ser Ala Val
Cys Asp Pro Gly Asn
             20
<210> 417
<211> 21
<212> PRT
<213> Homo sapiens
<400> 417
Asn Ile Arg Val Thr Glu Ala Pro Lys His Pro Ile Ser Glu Glu Leu
                                                           15
                  5
Glu Thr Pro Ile Lys
             20
<210> 418
<211> 20
<212> PRT
<213> Homo sapiens
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Lys Asp Ser His Leu Ile Pro Thr Pro Gln Ala Pro Ser Ile Ala Phe
                                      10
Pro Leu Ala Asn
              20
<210> 419
<211> 21
<212> PRT
<213> Homo sapiens
<400> 419
Asn Pro Pro Val Ala Pro His Pro Arg Glu Lys Ile Ile Thr Ile Glu
                                                           15
                                     10
                   5
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Glu Thr His Glu Glu
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<210> 420
<211> 21
<212> PRT
<213> Homo sapiens
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Glu Leu Lys Lys Gln Tyr Ile Phe Gln Leu Ser Ser Leu Asn Pro Gln
                                     10
Glu Arg Ile Asp Tyr
             20
<210> 421
<211> 6
<212> PRT
<213> Homo sapiens
<400> 421
Ile Asn Ile Cys Ile Tyr
                 5
<210> 422
<211> 11
<212> PRT
<213> Homo sapiens
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<400> 422
Leu Gln Glu Ser Ala Xaa Gln Phe Ser Ser Ser
<210> 423
<211> 75
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<213> Homo sapiens
<400> 423
Asn Leu His Gly Cys His Gly Lys Phe Gln Glu His Asn Leu Lys Val
Asn Cys Met Thr Leu Phe Cys Val Ser Leu Thr Thr His Ser Val
                                  25
Ser Leu Lys Val Thr Val Tyr Ile Thr Val Ser Ile Leu Cys Met Pro
Asp Thr Gln Asp Ser Asn Phe Ser Phe Pro Leu Asp Thr Thr Tyr Leu
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55

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Val Ile Asn Phe Gly Ser Thr Tyr Ser Thr Lys
                     70
 65
<210> 424
<211> 30
<212> PRT
<213> Homo sapiens
<400> 424
Leu Phe Cys Val Ser Leu Thr Thr His Ser Val Ser Leu Lys Val
                                      10
Thr Val Tyr Ile Thr Val Ser Ile Leu Cys Met Pro Asp Thr
                                  25
             20
<210> 425
<211> 11
<212> PRT
<213> Homo sapiens
<400> 425
Leu Leu Asn Pro Lys Ala Ser Leu His Ser Ala
                  5
<210> 426
<211> 20
<212> PRT
<213> Homo sapiens
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<222> (18)
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<400> 426
Asp Pro Arg Val Arg Ala Ser Val Gly Arg Cys Val Arg Ala Ala Gly
Phe Xaa Leu Ala
             20
<210> 427
<211> 87
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<213> Homo sapiens
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<400> 427
Pro Tyr Arg Gly Gly Xaa Pro Tyr His Leu Pro Glu Ser Pro Pro Lys
                                      10
                                                          15
Arg Val Pro Trp Gln Glu His Ala Pro Arg Gln Val Cys Trp Arg Leu
Cys Pro Ile Arg Xaa Gly Leu Glu Glu Lys Gly Gly Arg His Gln Ser
         35
Gln Glu Pro Gly Met Xaa Gly Ser Cys Trp Ala Phe Ser Xaa Thr Gly
Asn Val Glu Gly Gln Trp Phe Leu Lys Gln Gly Pro Xaa Leu Pro Leu
 65
                     70
                                          75
Arg Xaa Xaa Leu Gly Leu
                 85
<210> 428
<211> 304
<212> PRT
<213> Homo sapiens
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<222> (37)
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<220>
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- <221> misc\_feature
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- <222> (274)
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- <221> misc\_feature
- <222> (287)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 428
- Arg Pro Thr Arg Pro Arg Val Arg Arg Ser Val Arg Pro Gly Arg Arg 10
- Leu Arg Pro Arg His Gly Thr Leu Ala Ala Ala Val Xaa Ala Gly
- Ala Ala Pro Gly Xaa Arg Ser Arg Pro Ala Pro Pro Ser Ser Arg Arg 40
- Ser Gly Pro Gly Gly Gly Val Pro Gly Ala Ala Gly Ala Arg Pro Leu
- Arg Ala Gly Asp Val Gln Pro Arg Pro Gly Ser Arg Xaa Ala Gly Asp 75
- Ala Gly Gly Arg Ala Arg Ser Arg Pro Pro Gly Gly Arg Gly Val Ala 90

- Val Leu Pro Glu Gly Asp Pro Gly Gly Ala Ser Leu Gln Arg Xaa His 100 105 110
- Gly Val Pro Ala Pro Cys Val Xaa Glu Thr Leu Leu Cys Ser Phe Glu 115 120 125
- Val Leu Asp Glu Leu Gly Lys His Met Leu Leu Arg Arg Asp Cys Gly
  130 135 140
- Pro Val Asp Thr Lys Val Thr Asp Asp Lys Asn Glu Thr Leu Ser Ser 145 150 155 160
- Val Leu Pro Leu Leu Asn Lys Glu Pro Leu Pro Gln Asp Phe Ser Val 165 170 175
- Lys Met Ala Ser Ile Phe Lys Glu Phe Val Thr Thr Tyr Asn Arg Thr 180 185 190
- Tyr Glu Ser Lys Glu Glu Thr Gln Trp Arg Met Ser Val Phe Ser Asn 195 200 205
- Asn Met Met Arg Ala Gln Lys Ile Gln Ala Leu Asp Arg Gly Thr Ala 210 220
- Gln Tyr Gly Val Thr Lys Phe Ser Asp Leu Thr Glu Glu Glu Phe His 225 230 235 240
- Thr Ile Tyr Leu Asn Pro Leu Leu Arg Glu Tyr His Gly Lys Asn Met 245 250 255
- Xaa Xaa Lys Gly Xaa Val Thr Lys Val Lys Asn Gln Ala Cys Xaa Ala 275 280 285
- Pro Ala Gly Leu Ser Gln Ser Leu Val Thr Trp Arg Ala Ser Gly Ser 290 295 300
- <210> 429
- <211> 85
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> misc\_feature
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- <220>
- <221> misc\_feature
- <222> (15)
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- <221> misc\_feature

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 429

Thr Leu Ala Ala Ala Val Xaa Ala Gly Ala Ala Pro Gly Xaa Arg 1 5 10 15

Ser Arg Pro Ala Pro Pro Ser Ser Arg Arg Ser Gly Pro Gly Gly Gly 20 25 30

Val Pro Gly Ala Ala Gly Ala Arg Pro Leu Arg Ala Gly Asp Val Gln 35 40 45

Pro Arg Pro Gly Ser Arg Xaa Ala Gly Asp Ala Gly Gly Arg Ala Arg
50 55 60

Ser Arg Pro Pro Gly Gly Arg Gly Val Ala Val Leu Pro Glu Gly Asp 65 70 75 80

Pro Gly Gly Ala Ser 85

<210> 430

<211> 119

<212> PRT

<213> Homo sapiens

<400> 430

Ser Phe Glu Val Leu Asp Glu Leu Gly Lys His Met Leu Leu Arg Arg 1 5 10 15

Asp Cys Gly Pro Val Asp Thr Lys Val Thr Asp Asp Lys Asn Glu Thr 20 25 30

Leu Ser Ser Val Leu Pro Leu Leu Asn Lys Glu Pro Leu Pro Gln Asp 35 40 45

Phe Ser Val Lys Met Ala Ser Ile Phe Lys Glu Phe Val Thr Thr Tyr 50 55 60

Asn Arg Thr Tyr Glu Ser Lys Glu Glu Thr Gln Trp Arg Met Ser Val 65 70 75 80

Phe Ser Asn Asn Met Met Arg Ala Gln Lys Ile Gln Ala Leu Asp Arg 85 90 95

Gly Thr Ala Gln Tyr Gly Val Thr Lys Phe Ser Asp Leu Thr Glu Glu 100 105 110

Glu Phe His Thr Ile Tyr Leu 115

<210> 431

<211> 11

<212> PRT

<213> Homo sapiens

<400> 431

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Thr Ser His Pro Leu Gly Gly Gly Val Glu Arg
<210> 432
<211> 9
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<213> Homo sapiens
<400> 432
Ala Cys Cys Cys Leu Glu Trp Ala Gly
<210> 433
<211> 43
<212> PRT
<213> Homo sapiens
<400> 433
Ser Ala Glu Gln Lys Thr Arg Leu His Leu Leu Tyr Lys Thr Glu Leu
                  5
                                     10
Tyr Phe Ser Phe Ile Ile Ser Arg Val Ala Val Leu Leu Val Leu Ile
                                 25
His Trp Arg Gly Gly Ile Arg Thr Asp Val Ser
<210> 434
<211> 23
<212> PRT
<213> Homo sapiens
<400> 434
Thr Leu Gln Asn Ile Tyr Pro Leu Leu Ile Asp Ala Ser Leu Tyr Ile
Cys Val Tyr Ile His Thr Tyr
<210> 435
<211> 99
<212> PRT
<213> Homo sapiens
<400> 435
Met Cys Cys Cys Leu Cys Cys Thr Ser Trp Ser Gly Ser Thr Ser Thr
Glu Arg Val Ser Gly Thr Arg Phe Arg Glu Val Pro Thr Ala Ser Cys
Ser Ser Ser Ala Pro Ala Pro Ser Glu Leu Gly Ser Ser Leu Ser Val
Ala Ala Ala Leu Leu Ser Leu Pro Pro Arg Ala Arg Leu Ala Leu
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Pro Arg Leu Pro Arg Leu Pro Ser Gln Glu Asn Leu Arg Asn Pro Lys
65 70 75 80

Gly Pro Gln Gly Asn Phe Gln Ala Pro Gly Ala Phe Val Leu Ser Ser 85 90 95

Ser Val Ala

- <210> 436
- <211> 216
- <212> PRT
- <213> Homo sapiens
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- <221> misc\_feature
- <222> (155)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 436
- Cys Ala Ala Ala Ser Ala Val Pro Pro Gly Pro Glu Ala His Gln Gln 1 5 10 15
- Ser Gly Tyr Arg Glu His Val Ser Gly Arg Cys Gln Leu His His Val 20 25 30
- Arg Pro Leu His Pro Arg Arg Pro Asn Ser Ala Leu Leu Ser Leu Leu 35 40 45
- Leu Leu Leu Phe Ser Ala Ser His Gln Glu Pro Gly Trp His Ser 50 55 60
- Gln Gly Ser Arg Ala Phe Gln Ala Arg Arg Ile Ser Gly Ile Pro Arg 65 70 75 80
- Asp Pro Arg Gly Thr Ser Lys His Leu Glu Leu Leu Ser Phe Leu Val 85 90 95
- Leu Trp His Arg Cys Cys Leu Pro Gly Gly Arg Xaa Phe Cys Glu Ser 100 105 110
- Leu Xaa Gln Gly Arg Ser Ala Cys Leu Leu His Gln Lys Pro Pro Leu
  115 120 125
- Leu Met Leu Ser Ala Pro Leu Gly Glu Gln Leu Pro Thr Gln Leu Leu 130 135 140
- Leu Pro Pro Arg Ser Ser Gly Ser Lys Phe Xaa Arg Tyr Gln Arg Pro

Gly Pro Arg Val Gly Val His Leu His Lys Gly Ser Ser Glu Ile Arg 165 170 175

Glu Ala Gly Gly Pro Gln Leu Trp Pro Gln Cys Pro His Pro Val Asp 180 185 190

Leu Asp Val Leu Arg Thr Thr Gln His Cys Leu Gln Ser Glu Gly Pro 195 200 205

Thr Ser Val His Leu Ser Ser Val 210 215

<210> 437

<211> 147

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<213> Homo sapiens

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<400> 437

Glu Val Glu Glu Ala Glu Leu Ala Ala Ala Leu Pro Met Glu Pro Arg 1 5 10 15

Ala Ser Ile Ala Gly Ala Ser Gly Ala Ala Asp Met His Phe Cys Pro 20 25 30

Ala Xaa Gly Thr His Arg Xaa Ala Tyr Pro Gln Glu Gly Ser Thr Tyr 35 40 45

Ala Thr Glu Leu Glu Arg Thr Lys Ala Pro Gly Ala Trp Lys Phe Pro 50 55 60

Trp Gly Pro Leu Gly Phe Leu Arg Phe Ser Trp Leu Gly Arg Arg Gly 65 70 75 80

Ser Leu Gly Ser Ala Ser Arg Ala Leu Gly Gly Arg Leu Arg Ala 85 90 95

Ala Ala Ala Thr Glu Arg Glu Glu Pro Ser Ser Asp Gly Ala Gly Ala 100 105 110

Glu Asp Glu His Asp Ala Val Gly Thr Ser Leu Lys Arg Val Pro Asp 115 120 125

Thr Arg Ser Val Asp Val Leu Pro Asp Gln Glu Val Gln Gln Arg Gln 130 135 140

Gln His Ile

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<210> 438
<211> 31
<212> PRT
<213> Homo sapiens
<400> 438
Arg Arg Ile Ser Gly Ile Pro Arg Asp Pro Arg Gly Thr Ser Lys His
Leu Glu Leu Leu Ser Phe Leu Val Leu Trp His Arg Cys Cys Leu
                                  25
             20
<210> 439
<211> 29
<212> PRT
<213> Homo sapiens
<400> 439
Arg Thr Lys Ala Pro Gly Ala Trp Lys Phe Pro Trp Gly Pro Leu Gly
                                      10
Phe Leu Arg Phe Ser Trp Leu Gly Arg Arg Gly Ser Leu
             20
<210> 440
<211> 31
<212> PRT
<213> Homo sapiens
<400> 440
Asp Val Leu Leu Pro Leu Leu Tyr Leu Leu Val Arg Lys His Ile Asn
Arg Ala Gly Ile Gly Asn Thr Phe Gln Gly Gly Ala Asn Cys Ile
<210> 441
<211> 11
<212> PRT
<213> Homo sapiens
<400> 441
Pro Arg Leu Ala Gln Leu Arg Leu Leu Ser Leu
                  5
<210> 442
<211> 178
<212> PRT
<213> Homo sapiens
<400> 442
Gln Ser Asp Phe Arg Glu Met Asn Gln Thr Asn Ser Thr Ser Asn Ala
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Ala Lys Ala Arg Glu Ala Gln Gln Gly Arg Gly Arg Asp Arg Glu Ala
20 25 30

Ile Phe Ser Ser Ser Ala Leu Glu His Leu Val Cys Tyr Leu Gln Ala 35 40 45

Tyr Lys His Thr Leu Leu Phe Ile Arg Ser Leu Asn Glu His Gly Leu 50 55 60

Gln Gln Leu Leu Phe Gln Trp Arg Asp Gly Leu Phe Gly Asn Trp Tyr 65 70 75 80

Phe Arg Ile Pro Ile Leu Leu Phe Phe Thr Gly Phe His Cys Tyr His 85 90 95

Leu Ser Cys Pro His Leu Pro Cys Ala Gln Arg Gln Ser Ser Arg Gly 100 105 110

Thr Val Pro Tyr Val Leu Cys Pro His Pro His His Leu His His 115 120 125

Tyr Ser Trp Phe Pro Phe Leu Ile Pro Val Leu His Thr Leu Pro Lys 130 135 140

Leu Gln Pro Lys Phe His Gly Arg Pro Glu Gln Pro Leu Asn Leu Leu 145 150 155 160

Gln Val Lys Pro Thr Ser Gly Thr Ile Ala Ser Ala Glu Gln Val Trp 165 170 175

Val Lys

<210> 443

<211> 29

<212> PRT

<213> Homo sapiens

<400> 443

Val Cys Tyr Leu Gln Ala Tyr Lys His Thr Leu Leu Phe Ile Arg Ser 1 5 10 15

Leu Asn Glu His Gly Leu Gln Gln Leu Leu Phe Gln Trp
20 25

<210> 444

<211> 32

<212> PRT

<213> Homo sapiens

<400> 444

Val Pro Tyr Val Leu Cys Pro His Pro His His His Leu His His Tyr

1 10 15

Ser Trp Phe Pro Phe Leu Ile Pro Val Leu His Thr Leu Pro Lys Leu 20 25 30

```
<210> 445
```

<211> 31

<212> PRT

<213> Homo sapiens

<400> 445

Glu Ser Glu Arg Ala Val Val Tyr Leu Ile Thr Gly Ala Leu Phe Ile 1 5 10 15

Val Ser Ser Cys Val Leu Cys Phe Leu Pro Ser Ser Arg Arg Glu 20 25 30

<210> 446

<211> 146

<212> PRT

<213> Homo sapiens

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Arg Val Leu Cys Ala Pro Ala Ala Gly Ala Val Arg Ala Leu Arg Leu 20 25 30

Ile Gly Trp Ala Ser Arg Ser Leu His Pro Leu Pro Gly Ser Arg Asp 35 40 45

Arg Ala His Pro Ala Ala Glu Glu Glu Asp Asp Pro Asp Arg Pro Ile 50 55 60

Glu Phe Ser Ser Lys Ala Asn Pro His Arg Trp Ser Val Gly His
65 70 75 80

Thr Met Gly Lys Gly His Gln Arg Pro Trp Trp Lys Val Leu Pro Leu 85 90 95

Ser Cys Phe Leu Val Ala Leu Ile Ile Trp Cys Xaa Leu Arg Glu Glu 100 105 110

Ser Glu Ala Asp Gln Trp Leu Arg Gln Val Trp Gly Glu Val Pro Glu 115 120 125

Pro Ser Asp Arg Ser Glu Glu Pro Glu Thr Pro Ala Ala Tyr Arg Ala 130 135 140

Arg Thr 145

<210> 447 <211> 249

- <212> PRT
- <213> Homo sapiens
- <220>
- <221> misc\_feature
- <222> (4)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> misc\_feature
- <222> (221)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 447
- Met Trp Val Xaa Gly Glu Glu Val Leu Gly Ser His Ala Ala Ser Pro 1 5 10 15
- Ala Phe Leu His Arg Cys Phe Ser Glu Glu Ser Cys Val Ser Ile Pro  $20 \hspace{1cm} 25 \hspace{1cm} 30$
- Glu Val Glu Gly Tyr Val Val Val Leu Gln Pro Asp Ala Pro Gln Ile 35 40 45
- Leu Leu Ser Gly Thr Ala His Phe Ala Arg Pro Ala Val Asp Phe Glu
  50 55 60
- Gly Thr Asn Gly Val Pro Leu Phe Pro Asp Leu Gln Ile Thr Cys Ser
  65 70 75 80
- Ile Ser His Gln Val Glu Ala Lys Lys Asp Glu Ser Trp Gln Gly Thr
  85 90 95
- Val Thr Asp Thr Arg Met Ser Asp Glu Ile Val His Asn Leu Asp Gly
  100 105 110
- Cys Glu Ile Ser Leu Val Gly Asp Asp Leu Asp Pro Glu Arg Glu Ser 115 120 125
- Leu Leu Asp Thr Thr Ser Leu Gln Gln Arg Gly Leu Glu Leu Thr 130 140
- Asn Thr Ser Ala Tyr Leu Thr Ile Ala Gly Val Glu Ser Ile Thr Val 145 150 155 160
- Tyr Glu Glu Ile Leu Arg Gln Ala Arg Tyr Arg Leu Arg His Gly Ala 165 170 175
- Ala Leu Tyr Thr Arg Lys Phe Arg Leu Ser Cys Ser Glu Met Asn Gly
  180 185 190
- Arg Tyr Ser Ser Asn Glu Phe Ile Val Glu Val Asn Val Leu His Ser 195 200 205
- Met Asn Arg Val Ala His Pro Ser His Val Leu Ser Xaa Gln Gln Phe 210 215 220
- Leu His Arg Gly His Gln Pro Pro Pro Glu Met Ala Gly His Ser Leu 225 230 235 240
- Ala Ser Ser His Arg Asn Ser Ser Thr

```
<210> 448
<211> 23
<212> PRT
<213> Homo sapiens
<400> 448
Leu Gly Ser His Ala Ala Ser Pro Ala Phe Leu His Arg Cys Phe Ser
                                      10
Glu Glu Ser Cys Val Ser Ile
             20
<210> 449
<211> 29
<212> PRT
<213> Homo sapiens
<400> 449
Gly Tyr Val Val Val Leu Gln Pro Asp Ala Pro Gln Ile Leu Leu Ser
                                      10
Gly Thr Ala His Phe Ala Arg Pro Ala Val Asp Phe Glu
             20
<210> 450
<211> 26
<212> PRT
<213> Homo sapiens
<400> 450
Ile Thr Cys Ser Ile Ser His Gln Val Glu Ala Lys Lys Asp Glu Ser
Trp Gln Gly Thr Val Thr Asp Thr Arg Met
             20
<210> 451
<211> 29
<212> PRT
<213> Homo sapiens
<400> 451
Asn Leu Asp Gly Cys Glu Ile Ser Leu Val Gly Asp Asp Leu Asp Pro
Glu Arg Glu Ser Leu Leu Leu Asp Thr Thr Ser Leu Gln
             20
<210> 452
<211> 23
<212> PRT
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<213> Homo sapiens

```
<400> 452
Ser Ala Tyr Leu Thr Ile Ala Gly Val Glu Ser Ile Thr Val Tyr Glu
Glu Ile Leu Arg Gln Ala Arg
             20
<210> 453
<211> 26
<212> PRT
<213> Homo sapiens
<400> 453
Arg Leu Ser Cys Ser Glu Met Asn Gly Arg Tyr Ser Ser Asn Glu Phe
                                     10
 1
Ile Val Glu Val Asn Val Leu His Ser Met
             20
<210> 454
<211> 25
<212> PRT
<213> Homo sapiens
<400> 454
Gln Gln Phe Leu His Arg Gly His Gln Pro Pro Glu Met Ala Gly
                                      10
His Ser Leu Ala Ser Ser His Arg Asn
<210> 455
<211> 299
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 455
Met Ala Asp Ser Glu Thr Phe Ile Ser Leu Glu Glu Cys Arg Gly His
Lys Arg Ala Arg Lys Arg Thr Ser Met Glu Thr Ala Leu Ala Leu Glu
Lys Leu Phe Pro Lys Gln Cys Gln Val Leu Gly Ile Val Thr Pro Gly
Ile Val Val Xaa Pro Met Gly Ser Gly Ser Asn Arg Pro Gln Glu Ile
```

75

Glu Ile Gly Glu Ser Gly Phe Ala Leu Leu Phe Pro Gln Ile Glu Gly

Ile Lys Ile Gln Pro Phe His Phe Ile Lys Asp Pro Lys Asn Leu Thr 85 90 95

Leu Glu Arg His Gln Leu Thr Glu Val Gly Leu Leu Asp Asn Pro Glu 100 105 110

Leu Arg Val Val Leu Val Phe Gly Tyr Asn Cys Cys Lys Val Gly Ala 115 120 125

Ser Asn Tyr Leu Gln Gln Val Val Ser Thr Phe Ser Asp Met Asn Ile 130 135 140

Ile Leu Ala Gly Gly Gln Val Asp Asn Leu Ser Ser Leu Thr Ser Glu 145 150 155 160

Lys Asn Pro Leu Asp Ile Asp Ala Ser Gly Val Val Gly Leu Ser Phe 165 170 175

Ser Gly His Arg Ile Gln Ser Ala Thr Val Leu Leu Asn Glu Asp Val 180 185 190

Ser Asp Glu Lys Thr Ala Glu Ala Ala Met Gln Arg Leu Lys Ala Ala 195 200 205

Asn Ile Pro Glu His Asn Thr Ile Gly Phe Met Phe Ala Cys Val Gly 210 215 220

Arg Gly Phe Gln Tyr Tyr Arg Ala Lys Gly Asn Val Glu Ala Asp Ala 225 230 235 240

Phe Arg Lys Phe Phe Pro Ser Val Pro Leu Phe Gly Phe Phe Gly Asn 245 250 255

Gly Glu Ile Gly Cys Asp Arg Ile Val Thr Gly Asn Phe Ile Leu Arg

Lys Cys Asn Glu Val Lys Asp Asp Leu Phe His Ser Tyr Thr Thr 275 280 285

Ile Met Ala Leu Ile His Leu Gly Ser Ser Lys 290 295

<210> 456

<211> 21

<212> PRT

<213> Homo sapiens

<400> 456

His Lys Arg Ala Arg Lys Arg Thr Ser Met Glu Thr Ala Leu Ala Leu

1 10 15

Glu Lys Leu Phe Pro

<210> 457

<211> 24

<212> PRT

<213> Homo sapiens

```
<400> 457
Met Gly Ser Gly Ser Asn Arg Pro Gln Glu Ile Glu Ile Gly Glu Ser
Gly Phe Ala Leu Leu Phe Pro Gln
             20
<210> 458
<211> 22
<212> PRT
<213> Homo sapiens
<400> 458
Phe His Phe Ile Lys Asp Pro Lys Asn Leu Thr Leu Glu Arg His Gln
Leu Thr Glu Val Gly Leu
             20
<210> 459
<211> 23
<212> PRT
<213> Homo sapiens
<400> 459
Phe Gly Tyr Asn Cys Cys Lys Val Gly Ala Ser Asn Tyr Leu Gln Gln
                                    10
Val Val Ser Thr Phe Ser Asp
             20
<210> 460
<211> 20
<212> PRT
<213> Homo sapiens
<400> 460
Thr Ser Glu Lys Asn Pro Leu Asp Ile Asp Ala Ser Gly Val Val Gly
Leu Ser Phe Ser
<210> 461
<211> 26
<212> PRT
<213> Homo sapiens
Asn Glu Asp Val Ser Asp Glu Lys Thr Ala Glu Ala Ala Met Gln Arg
Leu Lys Ala Ala Asn Ile Pro Glu His Asn
```

```
<210> 462
<211> 25
<212> PRT
<213> Homo sapiens
<400> 462
Tyr Tyr Arg Ala Lys Gly Asn Val Glu Ala Asp Ala Phe Arg Lys Phe
Phe Pro Ser Val Pro Leu Phe Gly Phe
             20
<210> 463
<211> 26
<212> PRT
<213> Homo sapiens
<400> 463
Ile Gly Cys Asp Arg Ile Val Thr Gly Asn Phe Ile Leu Arg Lys Cys
Asn Glu Val Lys Asp Asp Asp Leu Phe His
<210> 464
<211> 65
<212> PRT
<213> Homo sapiens
<400> 464
Gly Thr Arg Tyr Phe Leu Met Glu Leu Val Trp Phe Arg Phe Leu His
                                      10
Leu Asn Leu Pro Arg Gly Val Cys Cys Gly Ile Cys Val Cys Val
             20
                                  25
                                                      30
Arg Arg Gly Met Val Leu Ser Glu Pro Thr Ser Cys Gly Gln Arg Ala
                             40
Leu Ser Cys Glu Gly Gly Cys His Ser Gly Arg Val Gln Phe Arg Arg
                         55
                                              60
Pro
 65
<210> 465
<211> 341
<212> PRT
<213> Homo sapiens
<400> 465
Met Pro Lys Arg Lys Val Thr Phe Gln Gly Val Gly Asp Glu Glu Asp
```

Glu Asp Glu Ile Ile Val Pro Lys Lys Leu Val Asp Pro Val Ala 20 25 30

Gly	Ser	Gly 35	Gly	Pro	Gly	Ser	Arg 40	Phe	Lys	Gly	Lys	His 45	Ser	Leu	Asp
Ser	Asp 50	Glu	Glu	Glu	Asp	Asp 55	Asp	Asp	Gly	Gly	Ser 60	Ser	Lys	Tyr	Asp
Ile 65	Leu	Ala	Ser	Glu	Asp 70	Val	Glu	Gly	Gln	Glu 75	Ala	Ala	Thr	Leu	Pro 80
Ser	Glu	Gly	Gly	Val 85	Arg	Ile	Thr	Pro	Phe 90	Asn	Leu	Gln	Glu	Glu 95	Met
Glu	Glu	Gly	His 100	Phe	Asp	Ala	Asp	Gly 105	Asn	Tyr	Phe	Leu	Asn 110	Arg	Asp
Ala	Gln	Ile 115	Arg	Asp	Ser	Trp	Leu 120	Asp	Asn	Ile	Asp	Trp 125	Val	Lys	Ile
Arg	Glu 130	Arg	Pro	Pro	Gly	Gln 135	Arg	Gln	Ala	Ser	Asp 140	Ser	Glu	Glu	Glu
Asp 145	Ser	Leu	Gly	Gln	Thr 150	Ser	Met	Ser	Ala	Gln 155	Ala	Leu	Leu	Glu	Gly 160
Leu	Leu	Glu	Leu	Leu 165	Leu	Pro	Arg	Glu	Thr 170	Val	Ala	Gly	Ala	Leu 175	Arg
Arg	Leu	Gly	Ala 180	Arg	Gly	Gly	Gly	Lys 185	Gly	Arg	Lys	Gly	Pro 190	Gly	Glr
Pro	Ser	Ser 195	Pro	Gln	Arg	Leu	Asp 200	Arg	Leu	Ser	Gly	Leu 205	Ala	Asp	Glr
Met	Val 210	Ala	Arg	Gly	Asn	Leu 215	Gly	Val	Tyr	Gln	Glu 220	Thr	Arg	Glu	Arg
Leu 225	Ala	Met	Arg	Leu	Lys 230	Gly	Leu	Gly	Cys	Gln 235	Thr	Leu	Gly	Pro	His 240
Asn	Pro	Thr	Pro	Pro 245	Pro	Ser	Leu	Asp	Met 250	Phe	Ala	Glu	Glu	Leu 255	Ala
Glu	Glu	Glu	Leu 260	Glu	Thr	Pro	Thr	Pro 265	Thr	Gln	Arg	Gly	Glu 270	Ala	Glu
Ser	Arg	Gly 275	Asp	Gly	Leu	Val	Asp 280	Val	Met	Trp	Glu	Tyr 285	Lys	Trp	Glu
Asn	Thr 290	Gly	Asp	Ala	Glu	Leu 295	Tyr	Gly	Pro	Phe	Thr 300	Ser	Ala	Gln	Met

Phe Asp Leu Tyr Thr 340

 ${\tt Gln\ Thr\ Trp\ Val\ Ser\ Glu\ Gly\ Tyr\ Phe\ Pro\ Asp\ Gly\ Val\ Tyr\ Cys\ Arg}$ 

Lys Leu Asp Pro Pro Gly Gly Gln Phe Tyr Asn Ser Lys Arg Ile Asp

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<210> 466
<211> 24
<212> PRT
<213> Homo sapiens
<400> 466
Thr Phe Gln Gly Val Gly Asp Glu Glu Asp Glu Asp Glu Ile Ile Val
Pro Lys Lys Leu Val Asp Pro
             20
<210> 467
<211> 27
<212> PRT
<213> Homo sapiens
<400> 467
Pro Gly Ser Arg Phe Lys Gly Lys His Ser Leu Asp Ser Asp Glu Glu
Glu Asp Asp Asp Gly Gly Ser Ser Lys Tyr
             20
<210> 468
<211> 25
<212> PRT
<213> Homo sapiens
<400> 468
Glu Ala Ala Thr Leu Pro Ser Glu Gly Gly Val Arg Ile Thr Pro Phe
                  5
                                     10
Asn Leu Gln Glu Glu Met Glu Glu Gly
             2.0
<210> 469
<211> 29
<212> PRT
<213> Homo sapiens
<400> 469
Phe Leu Asn Arg Asp Ala Gln Ile Arg Asp Ser Trp Leu Asp Asn Ile
Asp Trp Val Lys Ile Arg Glu Arg Pro Pro Gly Gln Arg
<210> 470
<211> 26
<212> PRT
<213> Homo sapiens
```

<400> 470

Ser Leu Gly Gln Thr Ser Met Ser Ala Gln Ala Leu Leu Glu Gly Leu 1 5 10 15

Leu Glu Leu Leu Pro Arg Glu Thr Val
20 25

<210> 471

<211> 28

<212> PRT

<213> Homo sapiens

<400> 471

Arg Gly Gly Lys Gly Arg Lys Gly Pro Gly Gln Pro Ser Ser Pro

1 5 10 15

Gln Arg Leu Asp Arg Leu Ser Gly Leu Ala Asp Gln
20 25

<210> 472

<211> 24

<212> PRT

<213> Homo sapiens

<400> 472

Gln Glu Thr Arg Glu Arg Leu Ala Met Arg Leu Lys Gly Leu Gly Cys
1 5 10 15

Gln Thr Leu Gly Pro His Asn Pro 20

<210> 473

<211> 28

<212> PRT

<213> Homo sapiens

<400> 473

Asp Met Phe Ala Glu Glu Leu Ala Glu Glu Glu Leu Glu Thr Pro Thr 1 5 10 15

Pro Thr Gln Arg Gly Glu Ala Glu Ser Arg Gly Asp
20 25

<210> 474

<211> 30

<212> PRT

<213> Homo sapiens

<400> 474

Glu Leu Tyr Gly Pro Phe Thr Ser Ala Gln Met Gln Thr Trp Val Ser 1 5 10 15

Glu Gly Tyr Phe Pro Asp Gly Val Tyr Cys Arg Lys Leu Asp 20 25 30

<210> 475

```
<211> 14
```

<212> PRT

<213> Homo sapiens

<400> 475

Pro His Ser Ser Arg Val Ser Phe Leu Gln Ser Leu Ser Phe
1 5 10

<210> 476

<211> 141

<212> PRT

<213> Homo sapiens

<400> 476

Arg Gly Gln Pro Arg Pro Cys Val Ser Gly Val Cys Leu Ser Pro His 1 5 10 15

Ser Arg Phe Trp Glu Cys Cys Ser Phe Tyr Leu Gln Gly Leu Pro Ala 20 25 30

Leu Arg Cys Ser Arg Thr Pro Pro Gly Cys His Phe Phe Arg Val Phe 35 40 45

Pro Ser Cys Pro Phe Ser Ser Ser Arg Ser Pro Ser Cys Phe Thr His 50 55 60

Ile Cys Pro Val Val Arg Ile Gln Phe Ser Arg Ala Leu Trp Val Ser 65 70 75 80

Thr Cys Leu Val Leu Ala Ile Thr Pro Gly Lys Trp Leu Leu Pro Glu 85 90 95

Asp Arg Ala Leu Ser Leu Met Leu Leu Ala Ser Leu Gln Cys Cys Pro 100 105 110

Pro Pro Phe Gly Ala Trp Trp Met Gln Val Leu Thr His Lys Gly Arg
115 120 125

Gln Ala Gly Leu Gly Pro Gly Val Ser Ser Arg Pro Leu 130 135 140

<210> 477

<211> 133

<212> PRT

<213> Homo sapiens

<400> 477

Ser Asn Ile Lys Ser Leu Pro Pro Thr Asn Ser Leu Ser Leu Leu Arg
1 5 10 15

Ala Gln Thr Gly Thr Asp Cys Ala Val Ser Pro Gly Leu Ala Gly Pro 20 25 30

Cys His Gln Arg Gly Leu Glu Asp Thr Pro Gly Pro Arg Pro Ala Cys  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Leu Pro Leu Cys Val Ser Thr Cys Ile His Gln Ala Pro Lys Gly Gly 50 55 60

```
Gly Gln His Trp Arg Glu Ala Ser Ser Ile Arg Asp Arg Ala Leu Ser
Ser Gly Arg Ser His Phe Pro Gly Val Met Ala Lys Thr Lys His Val
Asp Thr His Asn Ala Arg Glu Asn Trp Ile Arg Thr Thr Gly Gln Met
Trp Val Lys His Glu Gly Glu Arg Glu Glu Glu Lys Gly His Glu Gly
        115
Lys Thr Leu Lys Lys
   130
<210> 478
<211> 25
<212> PRT
<213> Homo sapiens
<400> 478
Val Cys Leu Ser Pro His Ser Arg Phe Trp Glu Cys Cys Ser Phe Tyr
Leu Gln Gly Leu Pro Ala Leu Arg Cys
             20
<210> 479
<211> 27
<212> PRT
<213> Homo sapiens
<400> 479
Gln Phe Ser Arg Ala Leu Trp Val Ser Thr Cys Leu Val Leu Ala Ile
Thr Pro Gly Lys Trp Leu Leu Pro Glu Asp Arg
             20
<210> 480
<211> 27
<212> PRT
<213> Homo sapiens
<400> 480
Ser Leu Ser Leu Leu Arg Ala Gln Thr Gly Thr Asp Cys Ala Val Ser
Pro Gly Leu Ala Gly Pro Cys His Gln Arg Gly
             20
```

<210> 481

<211> 28

<212> PRT

<213> Homo sapiens

```
<400> 481
Ser Gly Arg Ser His Phe Pro Gly Val Met Ala Lys Thr Lys His Val
Asp Thr His Asn Ala Arg Glu Asn Trp Ile Arg Thr
<210> 482
<211> 91
<212> PRT
<213> Homo sapiens
<400> 482
Ala Arg Gly Trp Glu Cys Glu Glu Gly Ser Pro Gly Pro Val Phe Arg
Gly Cys Ala Ser Pro Arg Thr Pro Val Ser Gly Asn Ala Val Pro Ser
Thr Phe Arg Ala Cys Pro Pro Cys Gly Val Ala Ala Leu Leu Pro Gly
Val Ile Ser Ser Glu Ser Phe Leu His Ala Leu Phe Pro Pro His Val
Pro Pro Arg Ala Leu Pro Thr Ser Val Pro Trp Phe Gly Ser Ser Ser
Pro Val Arg Tyr Gly Tyr Pro Arg Val Trp Ser
                 85
<210> 483
<211> 20
<212> PRT
<213> Homo sapiens
<400> 483
Ala Arg Val Glu Val Gln Gly Gln Gly Pro Gly Ala Lys Val Asp Ala
Gly Glu Gly Gln
<210> 484
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<210> 484
<211> 121
<212> PRT
<213> Homo sapiens
<220>
<221> misc\_feature
<222> (46)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc\_feature
<222> (66)

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<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (98)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (121)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 484
Trp Val Val Leu Ser Gln Leu Gln Ala Gln Gly Val Ala Gly Met Met
Cys Ser Tyr Pro Glu Gly Gln Lys Lys Gly Lys Glu Ala Thr Arg Ser
                                  25
                                                      30
His Arg Trp Val Pro Arg Ser Leu Pro Gly Met Gly Ser Xaa Leu Ala
Ala Pro His Ser Asn Pro Trp Leu Ala Pro Leu Ala Leu Leu Glu Ile
                          55
                                              60
Pro Xaa Pro Val Leu Cys Glu Trp Lys Arg Lys Leu Ile Ala Leu Glu
Glu Val Ser Glu Cys Arg Pro Gly Val Gly Gly Gly Gly Phe Leu
                                      90
Ser Xaa Cys Arg Arg Gly His Leu Ser Phe Leu Ser Gly Ala Pro Tyr
                                                     110
Pro Leu Phe Pro Ile Ser Pro Leu Xaa
        115
<210> 485
<211> 206
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (127)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (131)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<221> misc\_feature

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 485

Glu Leu Arg His Gly Gly Pro Arg Gln Val Lys Asp Ser Phe Leu Asp 1 5 10 15

Tyr Met Gly Tyr Pro Asp Glu Asp Arg Ala Gly Pro Pro Ser Arg Trp
20 25 30

Phe Pro Arg Glu Arg Phe Leu Ser Pro Pro Thr Val Val Pro Leu Cys 35 40 45

Val Glu Leu Arg Leu Gly Phe Glu Ser Gly Met Gly Trp Gly Val Pro 50 55 60

Gly Ser Ser His Ser Glu Gly Gly Pro Glu Ala Arg Trp Pro Leu Ile 65 70 75 80

Ala Pro Met Tyr Thr Val Thr Gln Trp Phe Gln Arg Pro Asn Ser Gly 85 90 95

Arg Gly Pro Gln Pro Pro Gln Xaa Arg Gly Glu Ile Gly Lys Arg 100 105 110

Gly Tyr Gly Ala Pro Glu Arg Lys Leu Arg Trp Pro Leu Leu Xaa Trp 115 120 125

Glu Arg Xaa Pro Pro Pro Pro Pro Thr Pro Gly Arg His Ser Glu Thr 130 135 140

Ser Ser Ser Ala Ile Ser Phe Leu Phe His Ser Gln Arg Thr Gly Trp 145 150 155 160

Gly Ile Ser Ser Ser Ala Asn Gly Ala Ser Gln Gly Leu Leu Trp Gly 165 170 175

Ala Ala Arg Xaa Leu Pro Ile Pro Gly Arg Asp Leu Gly Thr His Leu 180 185 190

Trp Asp Leu Val Ala Ser Phe Pro Phe Phe Cys Pro Ser Gly
195 200 205

<210> 486

<211> 24

<212> PRT

<213> Homo sapiens

<400> 486

Pro Glu Gly Gln Lys Lys Gly Lys Glu Ala Thr Arg Ser His Arg Trp 1 5 10 15

Val Pro Arg Ser Leu Pro Gly Met 20

<210> 487

<211> 26

<212> PRT

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<213> Homo sapiens
<400> 487
Leu Arg Leu Gly Phe Glu Ser Gly Met Gly Trp Gly Val Pro Gly Ser
Ser His Ser Glu Gly Gly Pro Glu Ala Arg
<210> 488
<211> 24
<212> PRT
<213> Homo sapiens
<400> 488
His Ser Gln Arg Thr Gly Trp Gly Ile Ser Ser Ser Ala Asn Gly Ala
                  5
                                      10
Ser Gln Gly Leu Leu Trp Gly Ala
             20
<210> 489
<211> 20
<212> PRT
<213> Homo sapiens
<400> 489
Asp Ser Leu Thr Ile Lys Ser Gly Ser Gln Pro Gln Tyr Ser Pro Ala
Ile Thr Leu Trp
             20
<210> 490
<211> 54
<212> PRT
<213> Homo sapiens
<400> 490
Phe Ile Met Lys Leu Leu Tyr Gln Leu Leu Met Leu Thr Thr Ser Ser
Ser Tyr Ser Leu Ile Thr His Leu Cys Tyr Ser Ile Phe Leu Cys Ser
Phe Tyr Phe His Phe Pro Cys Asn Val Ser Leu Phe Val Leu Ile Ser
Glu Glu Phe Ile Tyr Asp
     50
<210> 491
<211> 21
<212> PRT
```

<213> Homo sapiens

```
<400> 491
Leu Met Leu Thr Thr Ser Ser Ser Tyr Ser Leu Ile Thr His Leu Cys
Tyr Ser Ile Phe Leu
             20
<210> 492
<211> 21
<212> PRT
<213> Homo sapiens
<400> 492
Leu Cys Ser Phe Tyr Phe His Phe Pro Cys Asn Val Ser Leu Phe Val
                                      10
Leu Ile Ser Glu Glu
             20
<210> 493
<211> 53
<212> PRT
<213> Homo sapiens
<400> 493
Met Arg Lys Asn Ile Phe Ala Ile Leu Asp Lys Met Leu Thr Cys Leu
Ile Ile Asn Glu Leu Phe Arg Asn Gln Tyr Lys Glu Thr Asn Ile Thr
             20
Arg Glu Val Lys Ile Lys Gly Thr Glu Glu Asn Gly Ile Ala Gln Met
Ser Tyr Lys Ala Ile
     50
<210> 494
<211> 21
<212> PRT
<213> Homo sapiens
<400> 494
Asp Lys Met Leu Thr Cys Leu Ile Ile Asn Glu Leu Phe Arg Asn Gln
                                      10
Tyr Lys Glu Thr Asn
             20
<210> 495
<211> 21
<212> PRT
<213> Homo sapiens
<400> 495
```

Asn Ile Thr Arg Glu Val Lys Ile Lys Gly Thr Glu Glu Asn Gly Ile

```
1 5 10 15
```

Ala Gln Met Ser Tyr 20

<210> 496

<211> 7

<212> PRT

<213> Homo sapiens

<400> 496

Gly Ile Ser Glu Arg Lys Pro 1 5

<210> 497

<211> 25

<212> PRT

<213> Homo sapiens

<400> 497

Gln Ser Pro Ala Val Ser Tyr Thr Val Thr Ser Gln Val Pro Trp Gly
1 5 10 15

Leu Gly Leu Leu Ala Gly Glu Lys Arg 20 25

<210> 498

<211> 100

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498

Leu Pro Ser His Pro Leu Arg Pro Leu Thr Phe Ser Ser Ala Met Cys
1 5 10 15

Met His Leu Pro Pro Pro Leu Cys Arg Arg Ala Ala Leu Ser Ala Pro 20 25 30

Phe Ala Thr Gln His Arg Pro Trp Ser Val Ala Ala Ala Cys Leu Pro 35 40 45

Arg Ile His Gln Asn Pro Leu Asp Ala Glu Tyr Pro Ser Gly Cys 55 60

Arg Met Ser Phe Leu Pro Ala Ala Cys Ser Asn Ile Tyr Ser Gln Glu 65 70 75 80

Cys His Tyr Thr Leu Met Ser His Ser Glu Ala Ser Thr Leu Gln Xaa 85 90 95

Ala Gln Leu Leu 100

```
<210> 499
```

<211> 76

<212> PRT

<213> Homo sapiens

<400> 499

Met Leu Gln Ala Ala Gly Arg Lys Leu Met Arg Gln Gln Pro Asp 1 5 10 15

Gly Tyr Ser Ala Ser Arg Gly Phe Trp Trp Met Arg Gly Arg Gln Ala 20 25 30

Ala Ala Thr Leu His Gly Arg Cys Trp Val Ala Lys Gly Ala Asp Ser 35 40 45

Ala Ala Leu Arg Gln Arg Gly Gly Gly Arg Cys Met His Ile Ala Asp 50 55 60

Glu Lys Val Arg Gly Leu Ser Gly Cys Asp Gly Ser 65 70 75

<210> 500

<211> 25

<212> PRT

<213> Homo sapiens

<400> 500

Leu Cys Arg Arg Ala Ala Leu Ser Ala Pro Phe Ala Thr Gln His Arg
1 5 10 15

Pro Trp Ser Val Ala Ala Ala Cys Leu 20 25

<210> 501

<211> 24

<212> PRT

<213> Homo sapiens

<400> 501

Arg Gly Phe Trp Trp Met Arg Gly Arg Gln Ala Ala Ala Thr Leu His  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Gly Arg Cys Trp Val Ala Lys Gly 20

<210> 502

<211> 23

<212> PRT

<213> Homo sapiens

<400> 502

Gln Arg Gly Gly Gly Arg Cys Met His Ile Ala Asp Glu Lys Val Arg
1 10 15

Gly Leu Ser Gly Cys Asp Gly

<210> 503

<211> 106

<212> PRT

<213> Homo sapiens

<400> 503

Thr His Pro Ser His Pro Ser Ile Val Ile Gln Ser Thr Val Ser Leu
1 5 10 15

Cys Leu Thr Ala Ser Ser Arg Arg Lys Lys Ser Asp Cys Leu Ser Leu 20 25 30

Cys Gln Val Ser Cys Ser Gln Arg Pro Gly Ser His Lys Thr Asn Val 35 40 45

Ala Trp Gly Phe Leu Met Ser Arg Val His Phe Ser Val Arg Trp Val 50 60

Ser Gly Gly Arg Gly Ile Thr Gly Ala Ile Cys Lys Glu Ser Ser Leu 65 70 75 80

Pro Cys Lys Glu Ile Gln Gly Lys Ala Cys Tyr Phe Cys His His Pro 85 90 95

Ala Gln Gln Ser Thr Pro Phe Ser His Ile 100 105

<210> 504

<211> 27

<212> PRT

<213> Homo sapiens

<400> 504

Val Ile Gln Ser Thr Val Ser Leu Cys Leu Thr Ala Ser Ser Arg Arg

1 10 15

Lys Lys Ser Asp Cys Leu Ser Leu Cys Gln Val

<210> 505

<211> 26

<212> PRT

<213> Homo sapiens

<400> 505

Ile Cys Lys Glu Ser Ser Leu Pro Cys Lys Glu Ile Gln Gly Lys Ala 1 5 10 15

Cys Tyr Phe Cys His His Pro Ala Gln Gln 20 25

<210> 506

<211> 11

<212> PRT

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<213> Homo sapiens
<400> 506
Pro Thr Arg Pro Pro Thr Arg Pro Ala Gly Lys
             5
<210> 507
<211> 35
<212> PRT
<213> Homo sapiens
<400> 507
Ser Ile Thr Lys Tyr Cys Gln Gly Cys Arg Lys Ile Gly Ala Leu Leu
Pro Trp Trp Glu Cys Asn Met Val Pro Asp Thr Thr Ser Ile Leu Lys
Leu Ile Cys
<210> 508
<211> 188
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (149)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 508
Ser Leu Gln Val Leu Arg Thr Leu Gly Ser Lys Cys Gly Asp Phe Leu
Arg Ser Arg Phe Cys Lys Asp Val Leu Pro Lys Leu Ala Gly Ser Leu
             20
Val Thr Gln Ala Pro Ile Ser Ala Arg Ala Gly Pro Val Tyr Ser His
Thr Leu Ala Phe Lys Leu Gln Leu Ala Val Leu Gln Gly Leu Gly Pro
Leu Cys Glu Arg Leu Asp Leu Gly Glu Gly Asp Leu Asn Lys Val Ala
Asp Ala Cys Leu Ile Tyr Leu Ser Val Lys Gln Pro Val Lys Leu Gln
Glu Ala Ala Arg Ser Val Phe Leu His Leu Met Lys Val Asp Pro Asp
```

Ser Thr Trp Phe Leu Leu Asn Glu Leu Tyr Cys Pro Val Gln Phe Thr 115 120 125

Pro Pro His Pro Ser Leu His Pro Val Gln Leu Xaa Gly Ala Ser Gly 130 135 140

Gln Gln Asn Pro Xaa His Asp Gln Arg Ala Pro Ala Ala Gln Gly Ala 145 150 155 160

Ala Val Thr Leu Leu Pro His His Arg Gly His Arg Ser Leu Pro Tyr 165 170 175

Cys Gln Pro Glu Ala Gly Leu Thr Pro Pro Arg Pro 180 185

<210> 509

<211> 138

<212> PRT

<213> Homo sapiens

<400> 509

Gly Ala Asp Gly Asn Val Ser Asp Phe Asp Asn Glu Glu Glu Glu Gl 1 5 10 15

Ser Val Pro Pro Lys Val Asp Glu Asn Asp Thr Arg Pro Asp Val Glu 20 25 30

Pro Pro Leu Pro Leu Gln Ile Gln Ile Ala Met Asp Val Met Glu Arg 35 40 45

Cys Ile His Leu Leu Ser Asp Lys Asn Leu Gln Ile Arg Leu Lys Val 50 60

Leu Asp Val Leu Asp Leu Cys Val Val Val Leu Gln Ser His Lys Asn 65 70 75 80

Gln Leu Leu Pro Leu Ala His Gln Ala Trp Pro Ser Leu Val His Arg 85 90 95

Leu Thr Arg Asp Ala Pro Leu Ala Val Leu Arg Ala Phe Lys Phe Tyr 100 105 110

Val Pro Trp Glu Ala Ser Val Val Thr Phe Phe Ala Ala Gly Ser Ala 115 120 125

Lys Met Ser Cys Gln Ser Trp Leu Ala Pro 130 135

<210> 510

<211> 26

<212> PRT

<213> Homo sapiens

<400> 510

Thr Leu Gly Ser Lys Cys Gly Asp Phe Leu Arg Ser Arg Phe Cys Lys
1 5 10 15

Asp Val Leu Pro Lys Leu Ala Gly Ser Leu

25

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20
<210> 511
<211> 29
<212> PRT
<213> Homo sapiens
<400> 511
Pro Val Tyr Ser His Thr Leu Ala Phe Lys Leu Gln Leu Ala Val Leu
<210> 512
<211> 27
<212> PRT
<213> Homo sapiens
<400> 512
             20
```

Gln Gly Leu Gly Pro Leu Cys Glu Arg Leu Asp Leu Gly

Ser Val Pro Pro Lys Val Asp Glu Asn Asp Thr Arg Pro Asp Val Glu 10

Pro Pro Leu Pro Leu Gln Ile Gln Ile Ala Met

<210> 513 <211> 26 <212> PRT <213> Homo sapiens

<400> 513 Trp Pro Ser Leu Val His Arg Leu Thr Arg Asp Ala Pro Leu Ala Val

Leu Arg Ala Phe Lys Phe Tyr Val Pro Trp 20

<210> 514 <211> 58 <212> PRT <213> Homo sapiens

<400> 514 Ser Leu Gly Ile Ser Thr Phe Gly Ile Met Val Phe Ser Val Tyr Phe 5 10 15

Gly Gly Ile Met Ile Ser Ile Pro Tyr Ser Gly Ile Ser Phe Gly Asn

Lys Lys Glu Leu Asn Ile Asp Ser Cys Tyr Asn Met Val Asn Leu Lys

Asn Ile Met Phe Ser Glu Arg Ser Gln Thr

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<210> 515
<211> 15
<212> PRT
<213> Homo sapiens
<400> 515
His Ala Ser Gly Asn Asn Asp Pro Leu Trp Phe Leu Thr Tyr Leu
<210> 516
<211> 21
<212> PRT
<213> Homo sapiens
<400> 516
Met Val Phe Ser Val Tyr Phe Gly Gly Ile Met Ile Ser Ile Pro Tyr
                                      10
Ser Gly Ile Ser Phe
             20
<210> 517
<211> 20
<212> PRT
<213> Homo sapiens
<400> 517
Phe Gly Asn Lys Lys Glu Leu Asn Ile Asp Ser Cys Tyr Asn Met Val
                  5
                                      10
Asn Leu Lys Asn
             2.0
<210> 518
<211> 75
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (48)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<222> (49)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
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<223> Xaa equals any of the naturally occurring L-amino acids \dot{}
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<220>

<221> misc\_feature

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 518

Met Asn Ser Phe Ser Val Ile Ala Ser Ile Val Val Leu Leu Pro Phe 1 5 10 15

Pro Gly Leu Ser Val Ser Ala Cys Leu Pro Ser His Ser His Gln Cys
20 25 30

Lys Thr Phe Ile Leu Leu Phe Leu Pro Ser Ser Glu Lys Thr Leu Xaa 35 40 45

Xaa Xaa Pro Pro Ser His Ser Ser Thr Leu Gly Gly Gln Gly Gln 50 55 60

Ile Met Arg Ser Gly Asp Arg Xaa His Xaa Gly 65 70 75

<210> 519

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> misc\_feature

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 519

Val Val Phe Phe Xaa Xaa Phe Phe Glu Met Glu Ser His Ser Val Ala 1 5 10 15

Gln Ala Gly Val Gln Trp Arg Asn Leu Gly Ser Leu Gln Ala Leu Pro
20 25 30

Pro Gly Phe Met Pro Phe Ser Cys Leu Ser Leu Pro Gly Ser Trp Asp  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Tyr Arg Arg Pro Pro Pro Ser Pro Ala Asn Leu Xaa Cys Ile Phe Ser

50 55 60

Arg Asp Gly Gly His His Val Ser Gln Xaa Gly Leu Asp Leu Leu Thr 65 70 75 80

Ser

<210> 520

<211> 28

<212> PRT

<213> Homo sapiens

<400> 520

Ile Val Val Leu Leu Pro Phe Pro Gly Leu Ser Val Ser Ala Cys Leu 1 5 10 15

Pro Ser His Ser His Gln Cys Lys Thr Phe Ile Leu 20 25

<210> 521

<211> 26

<212> PRT

<213> Homo sapiens

<400> 521

Pro Gly Phe Met Pro Phe Ser Cys Leu Ser Leu Pro Gly Ser Trp Asp
1 5 10 15

Tyr Arg Arg Pro Pro Pro Ser Pro Ala Asn 20 25

<210> 522

<211> 16

<212> PRT

<213> Homo sapiens

<400> 522

Tyr Arg Phe Lys Asn Pro Lys Cys Arg Leu Phe Ser Val Pro Cys Arg  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

<210> 523

<211> 128

<212> PRT

<213> Homo sapiens

<400> 523

Thr Gln Asn Arg Glu Leu Leu Ala Trp Lys Pro Lys Gly Thr Asp Asp 1 10 15

Ile Cys Thr Ser His Asn Thr Thr His Ile Gln Lys Met Pro Gly Glu 20 25 30

Ala Asn Ser Cys Cys Pro Arg Gly Ala Lys Ser Tyr His Ile Asp Cys 35 40 45

Trp Pro Pro Ala Leu Phe Pro Arg Cys Val Ala Tyr Leu Phe Leu Asn 50 55 60

Lys Pro Ala Thr Leu Arg Lys Lys Tyr Tyr Cys Lys Pro Tyr His Thr
65 70 75 80

Gln Leu His Pro Ala Trp His Arg Glu Lys Ser Ala Phe Trp Ile Phe 85 90 95

Glu Thr Val Ser Gln Ser Lys Gln Ser Leu Thr Ser Leu Val Tyr Ser 100 105 110

Val Asn Glu Leu Leu Val Leu Ser Asn Leu Ala Gln Trp Ala Leu Gly 115 120 125

<210> 524

<211> 23

<212> PRT

<213> Homo sapiens

<400> 524

Ala Trp Lys Pro Lys Gly Thr Asp Asp Ile Cys Thr Ser His Asn Thr  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Thr His Ile Gln Lys Met Pro

<210> 525

<211> 25

<212> PRT

<213> Homo sapiens

<400> 525

Cys Pro Arg Gly Ala Lys Ser Tyr His Ile Asp Cys Trp Pro Pro Ala  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Leu Phe Pro Arg Cys Val Ala Tyr Leu 20 25

<210> 526

<211> 26

<212> PRT

<213> Homo sapiens

<400> 526

Ser Tyr His Ile Asp Cys Trp Pro Pro Ala Leu Phe Pro Arg Cys Val 1 5 15

Ala Tyr Leu Phe Leu Asn Lys Pro Ala Thr 20 25

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<210> 527
<211> 29
<212> PRT
<213> Homo sapiens
<400> 527
Arg Lys Lys Tyr Tyr Cys Lys Pro Tyr His Thr Gln Leu His Pro Ala
Trp His Arg Glu Lys Ser Ala Phe Trp Ile Phe Glu Thr
<210> 528
<211> 28
<212> PRT
<213> Homo sapiens
<400> 528
Ile Cys Leu Asp Ser Cys Ser Gln Val Ser Val Thr Ser Leu Trp Ser
Phe Leu Arg Val His Ser Leu Val Gln Thr Leu Trp
                                 25
<210> 529
<211> 75
<212> PRT
<213> Homo sapiens
<400> 529
His Tyr Cys Cys Asp Phe Gly Thr Ser Leu Leu Gly Phe Tyr Val Pro
Phe His Tyr Tyr Val His Met Val Asn Ile Ile Leu Thr Thr Ile Asp
Phe Tyr His Tyr Lys Phe Cys Cys Ser Gln Asn Ala Asn Lys His Cys
Phe Lys His Phe Gln Ile Met Thr Thr Val Pro Tyr Leu Asn Ile Asn
Lys Glu Asn Leu Arg Phe Lys Asn Ile Phe Lys
                     70
<210> 530
<211> 27
<212> PRT
<213> Homo sapiens
<400> 530
Thr Ser Leu Cly Phe Tyr Val Pro Phe His Tyr Tyr Val His Met
```

Val Asn Ile Ile Leu Thr Thr Ile Asp Phe Tyr

<210> 531

<211> 22

<212> PRT

<213> Homo sapiens

<400> 531

Phe Gln Ile Met Thr Thr Val Pro Tyr Leu Asn Ile Asn Lys Glu Asn 1 5 10 15

Leu Arg Phe Lys Asn Ile 20

<210> 532

<211> 106

<212> PRT

<213> Homo sapiens

<400> 532

Ile Ser Glu Ser Met Ser Leu Val Arg Ser Leu Gln Phe Tyr Arg Gly
1 5 10 15

Lys Asn Arg Ala Glu Arg Thr Val Ile Ser Ser Ser Ser His Ser Cys
20 25 30

His Leu Ile Asp Leu Glu Phe Gln Pro Arg Ser Asp Gly Glu Val Ser 35 40 45

Ile Ser Phe Leu Glu Lys Gly Val Glu Leu Arg Trp Gly Met Gly Leu 50 60

Glu Asp Leu Ile Gly Leu Gly Leu Gly Val Ser Thr Arg Arg Ser Thr 65 70 75 80

Val Arg Arg Lys Glu Pro Thr Lys Ala Gly Met His Thr Ala Cys Ser 85 90 95

Glu Glu Met Glu Pro Glu Asn Arg Glu Asn 100 . 105

<210> 533

<211> 143

<212> PRT

<213> Homo sapiens

<400> 533

Asp Gly Ser Arg Ser Val Ala Gln Ala Arg Val Gln Trp His His Arg

1 5 10 15

Gly Ser Leu Pro Pro Leu Pro Pro Arg Phe Lys Gln Phe Pro Leu Arg 20 25 30

His Leu Arg Val Gly Gly Ile Thr Gly Ala Cys Arg His Thr Gln Ile  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Ile Phe Val Val Leu Val Gln Met Gly Phe His His Val Gly Gln Ala
50 55 60

Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala Leu Ala Ser Gln 65 70 75 80

Ser Ala Gly Ile Thr Gly Val Ser His Ser Thr Arg Pro Lys Leu Leu 85 90 95

Ser Trp Leu Pro Ser Asp Asn Leu Leu Gly Met Ala Leu Tyr Ser Ile 100 105 110

Gln Trp Ala Leu Leu Ala Asn Ser Leu Tyr Phe Gln Val Pro Ser Pro 115 120 125

Leu Ser Met Leu Cys Ala Phe Leu Pro Leu Trp Val Pro Ser Ala 130 135 140

<210> 534

<211> 27

<212> PRT

<213> Homo sapiens

<400> 534

Arg Gly Lys Asn Arg Ala Glu Arg Thr Val Ile Ser Ser Ser Ser His  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Ser Cys His Leu Ile Asp Leu Glu Phe Gln Pro 20 25

<210> 535

<211> 32

<212> PRT

<213> Homo sapiens

<400> 535

Leu Gly Leu Gly Val Ser Thr Arg Arg Ser Thr Val Arg Arg Lys Glu 1 5 10 15

Pro Thr Lys Ala Gly Met His Thr Ala Cys Ser Glu Glu Met Glu Pro 20 25 30

<210> 536

<211> 24

<212> PRT

<213> Homo sapiens

<400> 536

Gly Asp Pro Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val 1 5 10 15

Ser His Ser Thr Arg Pro Lys Leu

<210> 537

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<211> 25
<212> PRT
<213> Homo sapiens
<400> 537
Ala Leu Tyr Ser Ile Gln Trp Ala Leu Leu Ala Asn Ser Leu Tyr Phe
Gln Val Pro Ser Pro Leu Ser Met Leu
             20
<210> 538
<211> 35
<212> PRT
<213> Homo sapiens
<400> 538
Asp Arg Ile Leu Leu Phe Tyr Ser Arg Asp Gly Gln Thr Thr Ser Lys
                                      10
Gly Pro Asn Pro Ala Cys Cys Leu Phe Leu Leu Lys Lys Phe Tyr Trp
                                  25
Asn Thr Ala
         35
<210> 539
<211> 21
<212> PRT
<213> Homo sapiens
<400> 539
Asp Gly Gln Thr Thr Ser Lys Gly Pro Asn Pro Ala Cys Cys Leu Phe
Leu Leu Lys Lys Phe
             20
<210> 540
<211> 24
<212> PRT
<213> Homo sapiens
<400> 540
Asp Pro Arg Val Arg Arg Thr Leu Asp Leu Gly Ile Thr Leu Tyr Leu
Phe Leu Tyr Ile Phe Leu Ser Leu
             20
<210> 541
<211> 244
<212> PRT
<213> Homo sapiens
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<400> 541 °

Pro Ala Leu Gly Glu Cys Cys Leu Asp Ala Phe Leu Phe Leu Gly
1 5 10 15

Lys Gln Leu Lys Lys Ser Gly Glu Lys Pro Leu Leu Gly Gly Ser Leu 20 25 30

Met Glu Tyr Ala Ile Leu Ser Ala Ile Ala Ala Met As<br/>n Glu Pro Lys  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Thr Cys Ser Thr Thr Ala Leu Lys Lys Tyr Val Leu Glu Asn His Pro 50 55 60

Gly Thr Asn Ser Asn Tyr Gln Met His Leu Leu Lys Lys Thr Leu Gln 65 70 75 80

Lys Cys Glu Lys Asn Gly Trp Met Glu Gln Ile Ser Gly Lys Gly Phe 85 90 95

Ser Gly Thr Phe Gln Leu Cys Phe Pro Tyr Tyr Pro Ser Pro Gly Val 100 105 110

Leu Phe Pro Lys Lys Glu Pro Asp Asp Ser Arg Asp Glu Asp Glu Asp 115 120 125

Glu Asp Glu Ser Ser Glu Glu Asp Ser Glu Asp Glu Glu Pro Pro 130 135 140

Lys Arg Arg Leu Gln Lys Lys Thr Pro Ala Lys Ser Pro Gly Lys Ala 145 150 155 160

Ala Ser Val Lys Gln Arg Gly Ser Lys Pro Ala Pro Lys Val Ser Ala 165 170 175

Ala Gln Arg Gly Lys Ala Arg Pro Leu Pro Lys Lys Ala Pro Pro Lys 180 185 190

Ala Lys Thr Pro Ala Lys Lys Thr Arg Pro Ser Ser Thr Val Ile Lys
195 200 205

Lys Pro Ser Gly Gly Ser Ser Lys Lys Pro Ala Thr Ser Ala Arg Lys 210 215 220

Glu Val Lys Leu Pro Gly Lys Gly Lys Ser Thr Met Lys Lys Ser Phe 225 230 235 240

Arg Val Lys Lys

<210> 542

<211> 152

<212> PRT

<213> Homo sapiens

<400> 542

Asp Phe Glu Phe His His Asp Thr Leu Phe Ser Tyr Lys Ile Tyr Phe 1 5 10 15

Phe Thr Leu Lys Asp Phe Phe Met Val Asp Leu Pro Leu Pro Gly Asn 20 25 30

Phe Thr Ser Phe Leu Ala Leu Val Ala Gly Phe Phe Glu Glu Pro Pro Leu Gly Phe Leu Met Thr Val Asp Glu Gly Leu Val Phe Leu Ala Gly 50 Val Leu Ala Leu Gly Gly Ala Phe Leu Gly Lys Gly Leu Ala Phe Pro Arg Trp Ala Ala Glu Thr Leu Gly Ala Gly Leu Asp Pro Leu Cys Phe 90 95 Thr Asp Ala Ala Phe Pro Gly Asp Leu Ala Gly Val Phe Phe Cys Asn 105 Leu Leu Gly Gly Gly Ser Ser Ser Glu Ser Ser Ser Asp Asp 115 120 125 Ser Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Gly Ser Phe Phe 135 140 Gly Asn Arg Thr Pro Gly Leu Gly 145 150 <210> 543 <211> 28 <212> PRT <213> Homo sapiens <400> 543 Cys Leu Asp Ala Phe Leu Phe Leu Gly Lys Gln Leu Lys Lys Ser 5 Gly Glu Lys Pro Leu Leu Gly Gly Ser Leu Met Glu 20 <210> 544 <211> 30 <212> PRT

<213> Homo sapiens

<400> 544

Tyr Gln Met His Leu Leu Lys Lys Thr Leu Gln Lys Cys Glu Lys Asn 1 5 10 15

Gly Trp Met Glu Gln Ile Ser Gly Lys Gly Phe Ser Gly Thr 20 25 30

<210> 545

<211> 28

<212> PRT

<213> Homo sapiens

<400> 545

Lys Thr Pro Ala Lys Ser Pro Gly Lys Ala Ala Ser Val Lys Gln Arg
1 5 10 15

```
Gly Ser Lys Pro Ala Pro Lys Val Ser Ala Ala Gln
            20
<210> 546
<211> 28
<212> PRT
<213> Homo sapiens
<400> 546
Ser Ser Lys Lys Pro Ala Thr Ser Ala Arg Lys Glu Val Lys Leu Pro
Gly Lys Gly Lys Ser Thr Met Lys Lys Ser Phe Arg
                                  25
<210> 547
<211> 23
<212> PRT
<213> Homo sapiens
<400> 547
Val Asp Glu Gly Leu Val Phe Leu Ala Gly Val Leu Ala Leu Gly Gly
                  5
                                                          15
Ala Phe Leu Gly Lys Gly Leu
             20
<210> 548
<211> 25
<212> PRT
<213> Homo sapiens
<400> 548
Gly Leu Asp Pro Leu Cys Phe Thr Asp Ala Ala Phe Pro Gly Asp Leu
Ala Gly Val Phe Phe Cys Asn Leu Leu
             20
<210> 549
<211> 30
<212> PRT
<213> Homo sapiens
<400> 549
Gly Gln Glu Glu Trp Thr Asn Ser Arg His Lys Ala Pro Ser Ala Arg
Thr Ala Lys Gly Val Tyr Arg Asp Gln Pro Tyr Gly Arg Tyr
                                 25
<210> 550
<211> 26
<212> PRT
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```
<213> Homo sapiens
<400> 550
Ile Leu Ala Ile Ser Leu Ala Gln Asn Phe Thr Pro Ser Trp Lys Gly
Gly Glu Arg Glu Cys Ser Asp Leu Tyr Leu
             20
<210> 551
<211> 11
<212> PRT
<213> Homo sapiens
<400> 551
Leu Gln Thr Tyr Leu Ser Pro Tyr Lys Leu Phe
<210> 552
<211> 22
<212> PRT
<213> Homo sapiens
<400> 552
Leu Ala Ala Gly Ile Leu Asn Ser Ser Leu Pro Ala Leu Tyr His Ser
                  5
Val Glu Glu Ile Ser Gln
             20
<210> 553
<211> 21
<212> PRT
<213> Homo sapiens
<400> 553
Ser Tyr Lys Met Ser Thr Thr Leu Ser Arg Arg His Gln Asn Val Ser
                                     10
Leu Cys Lys Asp Met
             20
<210> 554
<211> 57
<212> PRT
<213> Homo sapiens
<400> 554
Ile Cys Ile Glu Ser Leu Met Leu His Tyr Ile Ala Leu Val Phe Glu
  1
                  5
Met Ala Phe Met Phe Pro Leu Val Tyr His Glu Met Gly Ser Asp Ser
```

Ile Arg Phe His Leu Cys Gln Val Asp Ser Cys Leu Pro Ser Met Met

```
Arg Phe Phe Phe Ser Phe Pro Phe Leu
<210> 555
<211> 21
<212> PRT
<213> Homo sapiens
<400> 555
Tyr Ile Ala Leu Val Phe Glu Met Ala Phe Met Phe Pro Leu Val Tyr
                                      10
His Glu Met Gly Ser
             20
<210> 556
<211> 21
<212> PRT
<213> Homo sapiens
<400> 556
Ser Asp Ser Ile Arg Phe His Leu Cys Gln Val Asp Ser Cys Leu Pro
                                      10
Ser Met Met Arg Phe
             20
<210> 557
<211> 45
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (1)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 557
Xaa Tyr Arg Met Asn Thr Lys Phe Leu Glu Ser Tyr Lys Met Ser Thr
Thr Leu Ser Arg Arg His Gln Asn Val Ser Leu Cys Lys Asp Met Lys
Thr Pro Ala Gly Thr Asp Thr Lys Ile Ala Phe Leu Glu
         35
                             40
<210> 558
<211> 115
<212> PRT
<213> Homo sapiens
<400> 558
Gly Gly Val Ser Val Gln Asp Gly Ser Leu Arg Glu Glu Thr Asp Val
                                     10
```

```
Gly Glu Gly Gly Arg Pro Arg Gly Gly Gln Ser Glu Gly Ala Arg Val
```

Thr Arg Arg Pro Ser Pro Pro Asp Ser Asn Ala Ser Ala Phe Asp Leu 35 40 45

Asp Leu Asp Phe Ser Pro Phe Cys Ile Trp Cys Tyr Arg Leu Glu Thr 50 60

Pro Ala Glu Val Val Phe Ser Pro Ala Pro Leu Arg Leu Ser Gly Pro 65 70 75 80

Gly Leu Ala Pro Val Val Phe Val Ser Thr Leu Pro Ser Leu Gln Pro 85 90 95

Ser Ser Phe Cys Gly Trp Asp Leu Pro Ala Arg Pro Arg Gly Leu Ser 100 105 110

Gly Phe Arg 115

<210> 559

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 559

Phe Thr Asn Lys Ser Cys Ser Lys Met Ser Ser Thr His Leu Tyr Lys

1 5 10 15

Gly Ser Asp Val Leu Cys Tyr Ala Arg Ser Ser Glu Ser Met Ser Leu 20 25 30

Ser Cys Gly Asp Val Ala Asn Ala Gly Arg Leu Thr Pro Arg Leu His 35 40 45

Leu Ala Arg Ser Ala Ser Gln Gly Pro Pro Thr Leu Pro Arg Val Pro 50 55 60

Pro Arg Gly Ser Arg Pro Pro Thr Ala Gly Glu Ser Pro Ala Pro Arg 65 70 75 80

Thr Xaa Ser Leu Glu Asn His Lys Asn Ile Asp His Leu Ser Ser Asn 85 90 95

Ser His Gly Lys Phe Arg Ile Tyr Gly Gln Asn Asp Ile Lys Ile 100 105 110

<210> 560

<211> 80

<212> PRT

<213> Homo sapiens

<400> 560

Gln Asp Val Ile Tyr Thr Phe Val Gln Arg Phe Arg Pro Met Leu  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Cys Thr Ile Leu Arg Lys Tyr Glu Pro Val Val Arg Gly Arg Lys 20 25 30

Arg Trp Gln Ala His Pro Ser Ser Ala Phe Gly Lys Lys Arg Leu Pro 35 40 45

Arg Pro Pro His Pro Ala Gln Gly Ala Pro Gln Arg Glu Gln Ala Ser 50 55 60

His Ser Trp Arg Glu Pro Gly Pro Gln Asn Thr Phe Pro Arg Lys Pro 65 70 75 80

<210> 561

<211> 22

<212> PRT

<213> Homo sapiens

<400> 561

Arg Glu Glu Thr Asp Val Gly Glu Gly Gly Arg Pro Arg Gly Gln 1 5 10 15

Ser Glu Gly Ala Arg Val 20

<210> 562

<211> 27

<212> PRT

<213> Homo sapiens

<400> 562

Gly Pro Gly Leu Ala Pro Val Val Phe Val Ser Thr Leu Pro Ser Leu
1 5 10 15

Gln Pro Ser Ser Phe Cys Gly Trp Asp Leu Pro 20 25

<210> 563

<211> 24

<212> PRT

<213> Homo sapiens

<400> 563

Met Ser Ser Thr His Leu Tyr Lys Gly Ser Asp Val Leu Cys Tyr Ala 1 5 10 15

Arg Ser Ser Glu Ser Met Ser Leu 20

```
<210> 564
<211> 28
<212> PRT
<213> Homo sapiens
<400> 564
Ser Gln Gly Pro Pro Thr Leu Pro Arg Val Pro Pro Arg Gly Ser Arg
                   5
                                      10
Pro Pro Thr Ala Gly Glu Ser Pro Ala Pro Arg Thr
<210> 565
<211> 25
<212> PRT
<213> Homo sapiens
<400> 565
Arg Phe Arg Arg Pro Met Leu Cys Thr Ile Leu Arg Lys Tyr Glu Pro
                                      10
Val Val Arg Gly Arg Arg Lys Arg Trp
             20
<210> 566
<211> 24
<212> PRT
<213> Homo sapiens
<400> 566
Arg Leu Pro Arg Pro Pro His Pro Ala Gln Gly Ala Pro Gln Arg Glu
                  5
                                      10
                                                           15
Gln Ala Ser His Ser Trp Arg Glu
             20
<210> 567
<211> 143
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (139)
<223> Xaa equals any of the naturally occurring L-amino acids
<220>
<221> misc_feature
<222> (140)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 567
Met His Gln Gln Lys Arg Gln Pro Glu Leu Val Glu Gly Asn Leu Pro
Val Phe Val Phe Pro Thr Glu Leu Ile Phe Tyr Ala Asp Asp Gln Ser
```

30

25

Thr His Lys Gln Val Leu Thr Leu Tyr Asn Pro Tyr Glu Phe Ala Leu 35 40

Lys Phe Lys Val Leu Cys Thr Thr Pro Asn Lys Tyr Val Val Val Asp 50 60

Ala Ala Gly Ala Val Lys Pro Gln Cys Cys Val Asp Ile Val Ile Arg 65 70 75 80

His Arg Asp Val Arg Ser Cys His Tyr Gly Val Ile Asp Lys Phe Arg 85 90 95

Leu Gln Val Ser Glu Gln Ser Gln Arg Lys Ala Leu Gly Lys Lys Arg
100 105 110

Gly Cys Cys Tyr Ser Ser Pro Ile Ser Lys Arg Thr Thr Lys Gly Arg 115 120 125

Arg Gly Lys Lys Ile Lys Gly Thr Phe Asn Xaa Xaa Phe Ile Phe 130 135 140

<210> 568

<211> 59

<212> PRT

<213> Homo sapiens

<400> 568

Thr Met Leu Phe Tyr Leu Ser Ser Gln Pro Asp Trp Gln Leu Asp Phe 1 5 10 15

Phe Arg Val Ser Phe Asn Gly Pro Val Phe Phe Ile Ile Phe Asn 20 25 30

Asp Arg Ala Gly Phe Arg Met Gln Ala Leu Val Ser Gln Ala Ala Cys 35 40 45

Arg Arg Ser Arg Tyr Lys Leu Ser Val Val Tyr
50 55

<210> 569

<211> 23

<212> PRT

<213> Homo sapiens

<400> 569

Asp Arg Ala Gly Phe Arg Met Gln Ala Leu Val Ser Gln Ala Ala Cys

1 10 15

Arg Arg Ser Arg Tyr Lys Leu 20

<210> 570

<211> 438

<212> PRT

<213> Homo sapiens

- <220>
- <221> misc\_feature
- <222> (84)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> misc\_feature
- <222> (188)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> misc\_feature
- <222> (324)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 570
- Met Ala Met Gly Phe Pro Gly Tyr Asp Leu Ser Ala Asp Asp Ile Ala 1 5 10 15
- Gly Lys Phe Gln Phe Ser Arg Gly Met Arg Arg Ser Tyr Asp Ala Gly
  20 25 30
- Phe Lys Leu Met Val Val Glu Tyr Ala Glu Ser Thr Asn Asn Cys Gln 35 40 45
- Ala Ala Lys Gln Phe Gly Val Leu Glu Lys Asn Val Arg Asp Trp Arg 50 55 60
- Lys Val Lys Pro Gln Leu Gln Asn Ala His Ala Met Arg Arg Ala Phe 65 70 75 80
- Arg Gly Pro Xaa Asn Gly Arg Phe Ala Leu Val Asp Gln Arg Val Ala 85 90 95
- Glu Tyr Val Arg Tyr Met Gln Ala Lys Gly Asp Pro Ile Thr Arg Glu 100 105 110
- Ala Met Gln Leu Lys Ala Leu Glu Ile Ala Gln Glu Met Asn Ile Pro 115 120 125
- Glu Lys Gly Phe Lys Ala Ser Leu Gly Trp Cys Arg Arg Met Met Arg 130 135 140
- Arg Tyr Asp Leu Ser Leu Arg His Lys Val Pro Val Pro Gln His Leu 145 150 155 160
- Pro Glu Asp Leu Thr Glu Lys Leu Val Thr Tyr Gln Arg Ser Val Leu 165 170 175
- Ala Leu Arg Arg Ala His Asp Tyr Glu Val Ala Xaa Met Gly Asn Ala 180 185 190
- Asp Glu Thr Pro Ile Cys Leu Glu Val Pro Ser Arg Val Thr Val Asp 195 200 205
- Asn Gln Gly Glu Lys Pro Val Leu Val Lys Thr Pro Gly Arg Glu Lys 210 220
- Leu Lys Ile Thr Ala Met Leu Gly Val Leu Ala Asp Gly Arg Lys Leu 225 230 235 240

Pro Pro Tyr Ile Ile Leu Arg Gly Thr Tyr Ile Pro Pro Gly Lys Phe 245 250 255

Pro Ser Gly Met Glu Ile Arg Cys His Arg Tyr Gly Trp Met Thr Glu 260 265 270

Asp Leu Met Gln Asp Trp Leu Glu Val Val Trp Arg Arg Thr Gly 275 280 285

Ala Val Pro Lys Gln Arg Gly Met Leu Ile Leu Asn Gly Phe Arg Gly 290 295 300

His Ala Thr Asp Ser Val Lys Asn Ser Met Glu Ser Met Asn Thr Asp 305 310 315 320

Met Val Ile Xaa Pro Gly Gly Leu Thr Ser Gln Leu Gln Val Leu Asp 325 330 335

Val Val Val Tyr Lys Pro Leu Asn Asp Ser Val Arg Ala Gln Tyr Ser 340 345 350

Asn Trp Leu Leu Ala Gly Asn Leu Ala Leu Ser Pro Thr Gly Asn Ala 355 360 365

Lys Lys Pro Pro Leu Gly Leu Phe Leu Glu Trp Val Met Val Ala Trp 370 375 380

Asn Ser Ile Ser Ser Glu Ser Ile Val Gln Gly Phe Lys Lys Cys His 385 390 395 400

Ile Ser Ser Asn Leu Glu Glu Glu Asp Asp Val Leu Trp Glu Ile Glu 405 410 415

Ser Glu Leu Pro Gly Gly Gly Glu Pro Pro Lys Asp Cys Asp Thr Glu 420 425 430

Ser Met Ala Glu Ser Asn 435

<210> 571

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 571

Arg Gly Met Arg Gly Arg Trp Leu Val Ser Ser Gly Ala Ala Phe Pro 1 5 10 15

Ile Pro Leu Asn Gly Phe Cys Glu Ser Arg Glu Phe Phe Pro Asp Ser 20 25 30

Gly Ser Val Leu Leu His Trp Arg Pro Asn Xaa Val Leu Ile Glu Ile 35 40 45

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Lys Val Phe Gly Ser Arg Ser Gln Ser Leu Ile Ser Ser Lys Asn Leu 50 55 60
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Lys Thr Ser Leu Thr Phe Ile Tyr Gly Lys Val Glu Glu Val Leu Asn 65 70 75 80

Asn

<210> 572

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 572

Leu Lys Leu Ser Ser Ala Asp Ser Gln Ala Ile Met Asn Ile Phe Ser 1 5 10 15

Ala Asp Cys Met Pro Arg Leu His Ile Ala Leu Gln Thr Glu Met Ile 20 25 30

Pro Asn Arg Ala Pro Gln Gly Gly Ala Ala Ala Asn Leu Trp His Glu 35 40 45

Ala Gln Tyr Arg Arg Leu Pro Phe Ser Arg Ala Pro Glu Xaa Thr Asp 50 55 60

Ala His Gln Ala Ser Ala Gln Arg Gly Ala Ala Gln Leu Pro Arg Glu 65 70 75 80

Gln

<210> 573

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 573

Pro Ile Pro Leu Asn Gly Phe Cys Glu Ser Arg Glu Phe Phe Pro Asp 1 5 10 15

Ser Gly Ser Val Leu Leu His Trp Arg Pro Asn Xaa 20 25

<210> 574

<211> 29

<212> PRT

<213> Homo sapiens

<400> 574

Asn Ile Phe Ser Ala Asp Cys Met Pro Arg Leu His Ile Ala Leu Gln
1 5 10 15

Thr Glu Met Ile Pro Asn Arg Ala Pro Gln Gly Gly Ala 20 25

<210> 575

<211> 37

<212> PRT

<213> Homo sapiens

<400> 575

Thr Phe Arg Leu Val Ser Ala His Leu Lys Thr Arg Lys Leu Ile Asn 1 5 10 15

Pro Glu Ala Ala Glu Arg Arg Trp Arg Asp Trp Asp Ser Arg Gln Gly 20 25 30

Trp Leu Ser Val Lys 35

<210> 576

<211> 21

<212> PRT

<213> Homo sapiens

<400> 576

Lys Thr Arg Lys Leu Ile Asn Pro Glu Ala Ala Glu Arg Arg Trp Arg 1 5 10 15

Asp Trp Asp Ser Arg

<210> 577

<211> 83

<212> PRT

<213> Homo sapiens

<400> 577

Trp Asn Tyr Thr Val Asn Asn Leu Tyr Leu Phe Ser Phe Ser Ile Val

1 5 10 15

Ser Met Lys Phe Met His Val Leu Ser Ile Asn Ile Phe Phe Gly Arg 20 25 30

Ala Arg Trp Leu Thr Pro Val Ile Pro Ala Leu Leu Glu Ala Glu Ala 35 40 45

Gly Gly Ser Leu Gly Gln Glu Phe Lys Thr Ser Leu Gly Lys Asp Gly 50 55 60

Glu Thr Pro Ser Leu Leu Lys Ile Gln Lys Leu Ala Gly His Gly Gly

Arg Arg Leu

<210> 578

<211> 76

<212> PRT

<213> Homo sapiens

<400> 578

Asp Gln Pro Gly Lys His Gly Glu Thr Leu Ser Leu Leu Lys Met Gln

1 10 15

Lys Leu Thr Trp Cys Gly Gly Met Pro Phe Val Ile Pro Ser Tyr Ser 20 25 30

Arg Ser Pro Arg Pro Glu Asn Arg Leu Asn Leu Gly Asp Arg Gly Cys 35 40 45

Thr Glu Leu Leu His Ser Ser Leu Gly Asn Arg Val Arg Leu Ser Lys 50 55 60

Lys Lys Glu Val Tyr Met Met Glu Leu Tyr Ser Lys 65 70 75

<210> 579

<211> 28

<212> PRT

<213> Homo sapiens

<400> 579

Val Ile Pro Ala Leu Leu Glu Ala Glu Ala Gly Gly Ser Leu Gly Gln
1 5 10 15

Glu Phe Lys Thr Ser Leu Gly Lys Asp Gly Glu Thr 20 25

<210> 580

<211> 29

<212> PRT

<213> Homo sapiens

<400> 580

Asn Arg Leu Asn Leu Gly Asp Arg Gly Cys Thr Glu Leu Leu His Ser 1 5 10 15

Ser Leu Gly Asn Arg Val Arg Leu Ser Lys Lys Glu 20 25

<210> 581

<211> 8

<212> PRT

<213> Homo sapiens

<400> 581

```
His Glu Ile Phe Gly Gln Val Phe
<210> 582
<211> 17
<212> PRT
<213> Homo sapiens
<400> 582
His Ala Ser Glu His Leu Ala Ala Leu Pro Val Asn Val Lys Ile Gly
                                      10
Lys
<210> 583
<211> 77
<212> PRT
<213> Homo sapiens
<400> 583
Leu Val Cys Ile Leu Leu Val His Trp Ile Pro Pro Leu Gly Ala Trp
                                      10
Gly Leu Ser Leu Met Leu Phe Leu Ile Leu Glu Gln Arg Cys Gly Lys
             20
                                 25
Gly Lys Trp Arg Asn Ala Leu Leu Ser Val Ser Phe Ser Val Pro Gln
Leu Gln Met Gln Lys Val Ser Leu Asp Ser Thr Pro Leu Asn Val Asn
     50
His Asp Lys Met Asp Ile Trp Lys Leu Thr Pro Lys Leu
 65
                     70
<210> 584
<211> 57
<212> PRT
<213> Homo sapiens
<400> 584
Ile Met Ile Lys Trp Ile Phe Gly Asn Leu Leu Leu Ser Cys Asp Leu
Gly Cys Ile Ser Thr Ser Gly Leu Pro Gln Tyr Gln Gly Leu Arg Leu
Leu Asn Phe Glu Tyr Ser Leu Gly Phe Met Leu Arg Ser Leu Trp Ser
Arg Ser Ala Ile Gln Cys Phe Phe Ser
<210> 585
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<211> 21

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<212> PRT
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<213> Homo sapiens

<400> 585

Leu Leu Ser Cys Asp Leu Gly Cys Ile Ser Thr Ser Gly Leu Pro

1 5 10 15

Gln Tyr Gln Gly Leu 20

<210> 586

<211> 21

<212> PRT

<213> Homo sapiens

<400> 586

Leu Arg Leu Leu Asn Phe Glu Tyr Ser Leu Gly Phe Met Leu Arg Ser 1 5 10 15

Leu Trp Ser Arg Ser 20

<210> 587

<211> 78

<212> PRT

<213> Homo sapiens

<400> 587

Ala Ser Pro His Leu Phe Ile Glu Lys Trp Gly Arg Ala Phe Ile Leu 1 5 10 15

Arg Lys Leu Leu Val Pro Val Ile Ser Lys Arg Ile Ile Asn Ile 20 25 30

Met Ala His Gln Val Lys Pro Pro Ile Phe Cys Ala Met Ile Met Cys 35 40 45

Asn Leu Phe Cys Ser Gly Tyr Glu His Leu Leu Phe Thr Leu Met Arg 50 55 60

Phe Phe Ser Phe Glu Gln Ile Phe Asp Glu Val Val Phe His 65 70 75

<210> 588

<211> 25

<212> PRT

<213> Homo sapiens

<400> 588

Lys Leu Leu Val Pro Val Ile Ser Lys Arg Ile Ile Asn Ile Met 1 5 10 15

Ala His Gln Val Lys Pro Pro Ile Phe 20 25

<210> 589

```
<211> 7
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<212> PRT

<213> Homo sapiens

<400> 589

Pro Glu Gln Lys Arg Leu His
1 5

- <210> 590
- <211> 358
- <212> PRT
- <213> Homo sapiens
- <220>
- <221> misc\_feature
- <222> (352)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <220>
- <221> misc\_feature
- <222> (356)
- <223> Xaa equals any of the naturally occurring L-amino acids
- <400> 590
- Phe Ala Val Ile Arg Phe Glu Ser Ile Ile His Glu Phe Asp Pro Trp

  1 5 10 15
- Phe Asn Tyr Arg Ser Thr His His Leu Ala Ser His Gly Phe Tyr Glu 20 25 30
- Phe Leu Asn Trp Phe Asp Glu Arg Ala Trp Tyr Pro Leu Gly Arg Ile 35 40 45
- Val Gly Gly Thr Val Tyr Pro Gly Leu Met Ile Thr Ala Gly Leu Ile 50 55 60
- His Trp Ile Leu Asn Thr Leu Asn Ile Thr Val His Ile Arg Asp Val 65 70 75 80
- Cys Val Phe Leu Ala Pro Thr Phe Ser Gly Leu Thr Ser Ile Ser Thr 85 90 95
- Phe Leu Leu Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala 100 105 110
- Ala Cys Phe Ile Ala Ile Val Pro Gly Tyr Ile Ser Arg Ser Val Ala 115 120 125
- Gly Ser Phe Asp Asn Glu Gly Ile Ala Ile Phe Ala Leu Gln Phe Thr 130 135 140
- Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp Thr 145 150 155 160
- Met Cys Cys Cys Leu Ser Tyr Phe Tyr Met Val Ser Ala Trp Gly Gly 165 170 175
- Tyr Val Phe Ile Ile Asn Leu Ile Pro Leu His Val Phe Val Leu Leu 180 185 190

Leu Met Gln Arg Tyr Ser Lys Arg Val Tyr Ile Ala Tyr Ser Thr Phe 195 200 205

Tyr Ile Val Gly Leu Ile Leu Ser Met Gl<br/>n Ile Pro Phe Val Gly Phe 210 215 220

Gln Pro Ile Arg Thr Ser Glu His Met Ala Ala Gly Val Phe Ala 225 230 235 240

Leu Leu Gln Ala Tyr Ala Phe Leu Gln Tyr Leu Arg Asp Arg Leu Thr 245 250 255

Lys Gln Glu Phe Gln Thr Leu Phe Phe Leu Gly Val Ser Leu Ala Ala 260 265 270

Gly Ala Val Phe Leu Ser Val Ile Tyr Leu Thr Tyr Thr Gly Tyr Ile 275 280 285

Ala Pro Trp Ser Gly Arg Phe Tyr Ser Leu Trp Asp Thr Gly Tyr Ala 290 295 300

Lys Ile His Ile Pro Ile Ile Ala Ser Val Ser Glu His Gln Pro Thr 305 310 315 320

Thr Trp Val Ser Phe Phe Phe Asp Leu His Ile Leu Val Cys Thr Phe 325 330 335

Pro Ala Gly Leu Trp Phe Cys Ile Lys Asn Ile Asn Asp Glu Arg Xaa 340 345 350

Phe Gly Lys Xaa Gly Phe 355

<210> 591

<211> 27

<212> PRT

<213> Homo sapiens

<400> 591

Glu Phe Asp Pro Trp Phe Asn Tyr Arg Ser Thr His His Leu Ala Ser 1 5 10 15

His Gly Phe Tyr Glu Phe Leu Asn Trp Phe Asp 20 25

<210> 592

<211> 23

<212> PRT

<213> Homo sapiens

<400> 592

Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala Ala Cys Phe
1 5 10 15

Ile Ala Ile Val Pro Gly Tyr

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<210> 593
 <211> 22
 <212> PRT
 <213> Homo sapiens
 <400> 593
 Thr Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp
                                      10
 Thr Met Cys Cys Cys Leu
             20
<210> 594
 <211> 25
<212> PRT
<213> Homo sapiens
<400> 594
Gly Val Phe Ala Leu Leu Gln Ala Tyr Ala Phe Leu Gln Tyr Leu Arg
                   5
Asp Arg Leu Thr Lys Gln Glu Phe Gln
             20
<210> 595
<211> 27
<212> PRT
<213> Homo sapiens
<400> 595
Tyr Ser Leu Trp Asp Thr Gly Tyr Ala Lys Ile His Ile Pro Ile Ile
Ala Ser Val Ser Glu His Gln Pro Thr Trp
             20
<210> 596
<211> 408
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (20)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 596
Met Gly His Met Leu Tyr Leu Leu Gly Asn Ile Asn Lys Arg Thr Met
His Lys Tyr Xaa Gln Glu Ser Lys Lys Ala Gly Lys Ala Ser Phe Ala
             20
Tyr Ala Trp Val Leu Asp Glu Thr Gly Glu Glu Arg Glu Arg Gly Val
```

- Thr Met Asp Val Gly Met Thr Lys Phe Glu Thr Thr Thr Lys Val Ile 50 55 60
- Thr Leu Met Asp Ala Pro Gly His Lys Asp Phe Ile Pro Asn Met Ile 65 70 75 80
- Thr Gly Ala Ala Gln Ala Asp Val Ala Val Leu Val Val Asp Ala Ser 85 90 95
- Arg Gly Glu Phe Glu Ala Gly Phe Glu Thr Gly Gly Gln Thr Arg Glu
  100 105 110
- His Gly Leu Leu Val Arg Ser Leu Gly Val Thr Gln Leu Ala Val Ala 115 120 125
- Val Asn Lys Met Asp Gln Val Asn Trp Gln Gln Glu Arg Phe Gln Glu 130 135 140
- Ile Thr Gly Lys Leu Gly His Phe Leu Lys Gln Ala Gly Phe Lys Glu 145 150 155 160
- Ser Asp Val Gly Phe Ile Pro Thr Ser Gly Leu Ser Gly Glu Asn Leu 165 170 175
- Ile Thr Arg Ser Gln Ser Ser Glu Leu Thr Lys Trp Tyr Lys Gly Leu 180 185 190
- Cys Leu Leu Glu Gln Ile Asp Ser Phe Lys Pro Pro Gln Arg Ser Ile 195 200 205
- Asp Lys Pro Phe Arg Leu Cys Val Ser Asp Val Phe Lys Asp Gln Gly 210 215 220
- Ser Gly Phe Cys Ile Thr Gly Lys Ile Glu Ala Gly Tyr Ile Gln Thr 225 230 235 240
- Gly Asp Arg Leu Leu Ala Met Pro Pro Asn Glu Thr Cys Thr Val Lys 245 250 255
- Gly Ile Thr Leu His Asp Glu Pro Val Asp Trp Ala Ala Gly Asp 260 265 270
- His Val Ser Leu Thr Leu Val Gly Met Asp Ile Ile Lys Ile Asn Val 275 280 285
- Gly Cys Ile Phe Cys Gly Pro Lys Val Pro Ile Lys Ala Cys Thr Arg 290 295 300
- Phe Arg Ala Arg Ile Leu Ile Phe Asn Ile Glu Ile Pro Ile Thr Lys 305 310 315 320
- Gly Phe Pro Val Leu Leu His Tyr Gln Thr Val Ser Glu Pro Ala Val 325 330 335
- Ile Lys Arg Leu Ile Ser Val Leu Asn Lys Ser Thr Gly Glu Val Thr 340 345 350
- Lys Lys Lys Pro Lys Phe Leu Thr Lys Gly Gln Asn Ala Leu Val Glu 355 360 365

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Leu Gln Thr Gln Arg Pro Ile Ala Leu Glu Leu Tyr Lys Asp Phe Lys
     370
                         375
                                              380
Glu Leu Gly Arg Phe Met Leu Arg Tyr Gly Gly Ser Thr Ile Ala Ala
                                          395
Gly Val Val Thr Glu Ile Lys Glu
                 405
<210> 597
<211> 21
<212> PRT
<213> Homo sapiens
<220>
<221> misc_feature
<222> (16)
<223> Xaa equals any of the naturally occurring L-amino acids
<400> 597
Leu Tyr Leu Leu Gly Asn Ile Asn Lys Arg Thr Met His Lys Tyr Xaa
                                      10
                                                           15
Gln Glu Ser Lys Lys
             20
<210> 598
<211> 23
<212> PRT
<213> Homo sapiens
<400> 598
Leu Asp Glu Thr Gly Glu Glu Arg Glu Arg Gly Val Thr Met Asp Val
                                      10
Gly Met Thr Lys Phe Glu Thr
             20
<210> 599
<211> 22
<212> PRT
<213> Homo sapiens
<400> 599
Gly His Lys Asp Phe Ile Pro Asn Met Ile Thr Gly Ala Ala Gln Ala
Asp Val Ala Val Leu Val
             20
<210> 600
<211> 23
<212> PRT
<213> Homo sapiens
<400> 600
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Gly Phe Glu Thr Gly Gly Gln Thr Arg Glu His Gly Leu Leu Val Arg
                                      10
Ser Leu Gly Val Thr Gln Leu
             20
<210> 601
<211> 23
<212> PRT
<213> Homo sapiens
<400> 601
Trp Gln Glu Arg Phe Gln Glu Ile Thr Gly Lys Leu Gly His Phe
                                      10
Leu Lys Gln Ala Gly Phe Lys
             20
<210> 602
<211> 22
<212> PRT
<213> Homo sapiens
<400> 602
Thr Ser Gly Leu Ser Gly Glu Asn Leu Ile Thr Arg Ser Gln Ser Ser
                                      10
Glu Leu Thr Lys Trp Tyr
             20
<210> 603
<211> 23
<212> PRT
<213> Homo sapiens
<400> 603
Pro Gln Arg Ser Ile Asp Lys Pro Phe Arg Leu Cys Val Ser Asp Val
                                     10
                                                          15
Phe Lys Asp Gln Gly Ser Gly
             20
<210> 604
<211> 22
<212> PRT
<213> Homo sapiens
<400> 604
Leu Ile Ser Val Leu Asn Lys Ser Thr Gly Glu Val Thr Lys Lys
                  5
                                                          15
Pro Lys Phe Leu Thr Lys
             20
```

<210> 605

```
<211> 25
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<212> PRT

<213> Homo sapiens

<400> 605

Gln Arg Pro Ile Ala Leu Glu Leu Tyr Lys Asp Phe Lys Glu Leu Gly
1 5 10 15

Arg Phe Met Leu Arg Tyr Gly Gly Ser 20 25

<210> 606

<211> 83

<212> PRT

<213> Homo sapiens

<400> 606

Gln Lys Gly Pro Pro Ile Glu Asp Ala Ile Ala Ser Ser Asp Val Leu
1 5 10 15

Glu Thr Ala Ser Lys Ser Ala Asn Pro Pro His Thr Ile Gln Ala Ser 20 25 30

Glu Glu Gln Ser Ser Thr Pro Ala Pro Val Lys Lys Ser Gly Lys Leu  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Arg Gln Gln Ile Asp Val Lys Ala Glu Leu Glu Lys Arg Gln Gly Gly 50 55 60

Lys Gln Leu Leu Asn Leu Val Val Ile Gly His Val Asp Ala Gly Lys 65 70 75 80

Ser Thr Leu

<210> 607

<211> 120

<212> PRT

<213> Homo sapiens

<400> 607

Asn Gly Phe Phe Ser Phe Ser Met Tyr Ile Ile Leu Cys Gln Thr Phe 1 5 10 15

Phe Ser Val Ala Ala Leu Arg Trp Thr Gly Asp Ser Ile Gly Phe Ile 20 25 30

Asn Leu Ser Phe Ser His Leu Phe Ile Pro Gln Thr Phe Val Glu Gly 35 40 45

His Gln Ala Leu Gly Arg Gly Lys Trp Phe Tyr Lys Leu Val Leu Ser 50 55 60

Gly Ile Lys Glu Ile Tyr Asn Leu Tyr Tyr Leu Ile Val Ala Thr Ser 65 70 75 80

His Met Trp Phe Ser Asn Lys Ile Ser Ile Thr Ser Pro Thr Thr Phe 85 90 95

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Ser Ser Leu Val Arg Ser Arg Pro Arg Glu Thr Val Pro Phe Ile Val
                                                     110
Phe Ser Ala Phe Tyr Lys Leu Arg
        115
<210> 608
<211> 21
<212> PRT
<213> Homo sapiens
<400> 608
Ile Ile Leu Cys Gln Thr Phe Phe Ser Val Ala Ala Leu Arg Trp Thr
                                      10
Gly Asp Ser Ile Gly
             20
<210> 609
<211> 21
<212> PRT
<213> Homo sapiens
<400> 609
Gly Phe Ile Asn Leu Ser Phe Ser His Leu Phe Ile Pro Gln Thr Phe
                                     10
Val Glu Gly His Gln
             20
<210> 610
<211> 20
<212> PRT
<213> Homo sapiens
<400> 610
Gln Ala Leu Gly Arg Gly Lys Trp Phe Tyr Lys Leu Val Leu Ser Gly
                                     10
Ile Lys Glu Ile
<210> 611
<211> 21
<212> PRT
<213> Homo sapiens
<400> 611
Ile Tyr Asn Leu Tyr Tyr Leu Ile Val Ala Thr Ser His Met Trp Phe
Ser Asn Lys Ile Ser
```